

材料科學名詞  
(第二版)

# 材料科學名詞

(第三版)



學術名詞編譯系列叢書

# 材料科學名詞

( 第三版 )

國家教育研究院

2017年12月



# 序

學術名詞為具有學術領域專業意義之名詞。目前學術領域傳播研究成果的主要語文之一是英文，很多學術名詞常先以英文呈現，華文之圖書期刊等資料需要用到這些名詞便有賴於翻譯。翻譯必須一致才不會影響溝通交流，因此學術名詞的翻譯除在專業上必須考量譯名準確、自然、可理解及簡潔外，常常亦有賴於專家學者們的共識。

學術名詞編譯屬於國家教育基礎知識的建設工作，我國於1932年(民國21年)即設立國立編譯館，進行學術名詞的編譯。2011年3月30日，國立編譯館、國立教育資料館、國家教育研究院籌備處整合成為國家教育研究院，學術名詞及工具書編譯工作亦持續由編譯發展中心辦理。配合教育部的組織再造及院務的發展，中心除了原有業務外，逐漸納入教育部5部國語辭典編修推廣及語文教育發展等業務。因此，2017年6月15日，編譯發展中心改制成為語文教育及編譯研究中心。

紙本學術名詞工具書，具有發行量有限，使用不便及修訂更新難於及時等缺點。2002年國立編譯館將當時已完成的數十個學科領域學術名詞數位化，建置學術名詞資訊網，提供民眾不受時空限制的免費查詢及下載服務，而且，名詞審譯完成後也可即時更新。其後，歷經多次改版，最近為2012年，原學術名詞資訊網與原行政院研考會的雙語詞彙及本院辭書資訊網，整合成為「雙語詞彙、學術名詞暨辭書資訊網」(terms.naer.edu.tw)，提供雙語辭彙、學術名詞及辭書內容的整合查詢服務。

材料科學名詞審查工作始於1972年，由國立編譯館商請中國材料科學學會成立編譯小組，負責材料科學名詞編譯工作，於1976年完成初稿，送交國立編譯館審查。經國立編譯館報請教育部組成材料科學名詞審查委員會審查，於1977年審查完畢，1981年8月出版《材料科學名詞》，復於1990年9月出版《材料科學名詞》修訂版，共收錄20,070則名詞，內容涵蓋金屬、塑膠及陶瓷三大部分名詞。隨著材料科學的發展，新名詞不斷的推陳出新，學術名詞的翻譯需求愈來愈殷切。2007年國立編譯館聘請工業技術研究院奈米粉體暨薄膜科技中心栗愛綱主任等材料界學者專家組成材料科學名詞審譯委員會，進行名詞審譯工作。

材料科學名詞審譯會在既有的名詞基礎下，加入金屬、塑膠、陶瓷、高分子、奈米、能源、生醫等範疇的新名詞，歷時2年多的努力，召開近100場會議，審譯完成約15,000則名詞，並公告於前述資訊網(terms.naer.edu.tw)，提供大眾免費查詢及下載使用，對於教師教學、研究及出版，博碩士生的論文寫作，譯者專業文件的翻譯提供一致的譯名，提升學術溝通交流的品質。

近年來，電子書科技的進步，很多人已逐漸習慣閱讀電子書，因此，本院為

顧及更多元的使用需求，將階段審譯完成的名詞出版電子書。自2014年以來，本院已出版15個領域學術名詞電子書，包括2014年出版《物理化學儀器設備名詞(第二版)》、《外國地名譯名(第四版)》及《數學名詞(第四版)》；2015年出版《新聞傳播學名詞》、《地理學名詞》、《醫學名詞》、《物理學名詞(第五版)》、《教育學名詞(第二版)》、《土木工程名詞(第三版)》、《社會學名詞(第二版)》、《計量學名詞(第二版)》及《音樂名詞-詞語篇(第三版)》等領域電子書；2016年出版《生態名詞(第二版)》、《植物名詞(第二版)》、《心理名詞(第二版)》、《電機工程名詞(第二版)》、《生命科學名詞》、《海洋科學名詞》、《藥學名詞(第二版)》、《音樂名詞(第四版)》等。

學術名詞翻譯的一致性，常在需要使用時，才顯得其重要。審譯工作亦需專家學者認為重要、有興趣、有時間及願意貢獻心力四者兼備的情況下，才得以長期投入這項工作。本書能順利完成，感謝歷屆審譯委員，包括栗愛綱(第1至3屆主任委員、第4至6屆召集人)、吳錫侃(第1至3屆副主任委員、第4至6屆副召集人)、王玉瑞、王錫福、方旭偉、朱瑾、呂福興、林鴻明、林峯輝、周卓輝、洪敏雄、段維新、張立、陳建光、陳學禮、黃志青、鄭憲清、賴宏仁、顏怡文等委員。委員們的貢獻心力、付出及奉獻精神，令人感佩。其次感謝編輯小組的簡甄博士、陳志軒博士、劉維人博士、趙珮榛博士及本院陳建民先生等在彙整委員審譯意見、名詞資料整理、編輯排版的努力，另外也感謝賴苡靜小姐的封面設計。

最後本書雖已在名詞翻譯及編輯排版力求完善，但相信仍有需要再努力的地方，敬請使用者提供指教建議，本院會將修訂結果適時公布在網站([terms.naer.edu.tw](http://terms.naer.edu.tw))，以期更符合使用，謝謝！

國家教育研究院

語文教育及編譯研究中心主任 林慶隆

2017年12月

# 序

材料科學是研究各種材料的製程、結構、性質及功能四者之間的關係，兼及理論與應用，橫跨工程與科學，具跨領域與整合性，在科技產業中扮演著關鍵的地位。涉及的理論包括固體物理學，材料化學，應用物理和化學，以及化學工程、機械工程、電機工程和土木工程。材料傳統分為金屬材料、高分子材料和陶瓷材料三大類，近年來開發的新型和先進材料包括奈米材料、半導體材料、電子材料、生醫材料和能源材料等。

民國70年8月教育部公布出版的《材料科學名詞》係我國最早官方出版的材料科學名詞中英文對照書，由國家教育研究院前身國立編譯館編訂，之後於民國79年9月出版《材料科學名詞》修訂版，使其完備。隨著科技的進步，材料科學領域迅速發展，產生許多新興詞彙，因此提供即時、可靠並精確的材料名詞譯名，對於提升學術上的推廣與交流、年輕學子在材料領域的知識奠基，以及科普教育上的持續發展等，都具有其重要的價值。於是國立編譯館於民國96年成立「材料科學名詞審譯委員會」，由本人擔任主任委員，邀請材料相關領域學者、專家擔任審譯委員，包括吳錫侃（第1至3屆副主任委員、第4至6屆副召集人）、王玉瑞、王錫福、方旭偉、朱瑾、呂福興、林鴻明、林峯輝、周卓輝、洪敏雄、段維新、張立、陳建光、陳學禮、黃志青、鄭憲清、賴宏仁、顏怡文等委員，及協助會議記錄的簡甄、陳志軒、劉維人、趙珮榛編輯委員。以既有《材料科學名詞》為基礎，收集最新材料專書檢索、專業學會網站等名詞辭條資料，新收詞範疇包括奈米材料、能源材料及生醫材料三大部分，著手進行材料科學名詞之增修編訂工作，委員們秉持「信、達、雅」之翻譯精神，傾心盡力斟酌討論，歷時2年多、逾100場的開會審譯，始完成15,147則名詞的修編審譯工作，期盼此成果能提升材料領域間相互溝通的品質，並提供民眾與時俱進的資訊。

有關材料科學名詞的收錄及審譯原則，舊有名詞若不合時宜則予以刪除或修訂；已約定俗成使用普遍且短時間不易導正者，則保留舊譯名，並將較合適的新譯名並列置於前方，以循序漸進的方式使讀者習慣使用。基礎且重要之新興藥學名詞予以新增，並避免收錄一般非學術名詞、藥品名稱。中文翻譯以單一譯名為原則，必要時以同義詞並列。本書經過多位學者專家之審譯討論，然而學術名詞翻譯難免百密一疏，期望各界賢達不吝指正。

材料科學名詞審譯會召集人 栗愛網

2017年12月

# 凡 例

- 一、 本書所收錄主要內容為常用及新穎藥學名詞之中英文資料對照，期保持藥學名詞的完整性和系統性，以作為選錄的原則；但個別藥品名稱、商品名稱、老舊或罕用名詞則不予選錄。
- 二、 中醫藥效能用語之英譯多由中文直譯，不另選錄。
- 三、 中、英文名詞主要以「單詞單義」之「一對一」狀態為原則，若有需要以複合詞或多組同義詞並列，並依常用或建議使用順序，由左至右排序，並列名詞間以分號；區隔。例如：annealing point 徐冷點；退火點。
- 四、 除分類名稱、縮寫、人名及地名外，英文第一字母原則以小寫呈現。例如：alloy 合金。
- 五、 中文名詞出現半形[ ]，代表[ ]內字詞可省略。半形{ }內字詞為註釋。例如：Cassel kiln 克色[平焰]窯、Ambrose alloy 安布洛白銅 { 含 65-75%Cu，20-30%Ni，5%Zn，0.5%Mn，類似於 nickle-silver }。
- 六、 本書名詞皆已收錄於國家教育研究院「雙語詞彙、學術名詞暨辭書資訊網」(<http://terms.naer.edu.tw>)，唯恐仍有疏漏之處，歡迎讀者至前揭網址提供寶貴修訂建議。





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## A

|                               |                                  |
|-------------------------------|----------------------------------|
| abalone shell                 | 鮑魚殼                              |
| Abbe number                   | 阿貝值                              |
| Abbe refractometer            | 阿貝折射計                            |
| Abbe value                    | 阿貝值                              |
| ablation                      | 耗損                               |
| ablative shielding            | 剝離性散熱屏蔽 { 太空 }                   |
| abnormal grain growth         | 異常晶粒成長                           |
| abnormal setting              | 異常凝結                             |
| abnormal steel                | 異常鋼                              |
| abradant                      | 摩擦劑                              |
| Abram's law                   | 亞伯姆定律                            |
| abrasion                      | 磨耗                               |
| abrasion index                | 磨耗指數                             |
| abrasion resistance           | 磨耗抗力；耐磨性                         |
| abrasion test                 | 磨耗試驗                             |
| abrasive                      | 研磨劑；研磨料；磨料                       |
| abrasive belt                 | 研磨帶                              |
| abrasive brick                | 研磨磚                              |
| abrasive cloth                | 研磨布；砂布                           |
| abrasive grain                | 研磨粒                              |
| abrasive hardness             | 耐磨硬度；耐磨劑硬度                       |
| abrasive paper                | 研磨紙；砂紙                           |
| abrasive stone                | 磨石                               |
| abrasive tool                 | 磨具                               |
| abrasive wheel                | 砂輪；磨輪                            |
| absolute humidity             | 絕對溼度                             |
| absolute temperature          | 絕對溫度                             |
| absolute-reaction-rate theory | 絕對反應速率理論                         |
| absorber                      | 中子吸收材料；動能吸收材料 { 如鉛、金屬、蜂巢、塑膠泡沫等 } |
| absorption                    | 吸收[作用]                           |

|                                |                                 |
|--------------------------------|---------------------------------|
| absorption band                | 吸收帶                             |
| absorption coefficient         | 吸收係數                            |
| absorption current             | 吸收電流                            |
| absorption edge                | 吸收緣                             |
| absorption limit               | 吸收限                             |
| absorption refrigeration       | 吸收式製冷                           |
| absorption test                | 吸收[率]試驗                         |
| absorption-type inhibitor      | 吸收型抑制劑                          |
| absorption-type inhibitor      | 吸收型抑制劑                          |
| absorptivity                   | 吸收性；吸收率                         |
| Abyssinian gold                | 阿比西尼亞金 { 含 Cu 約 90%、Zn8%之擬金黃銅 } |
| AC impedance                   | 交流阻抗                            |
| accelerated aging              | 加速老化 { 橡膠 }                     |
| accelerated cement             | 速凝水泥                            |
| accelerated gum                | 速成膠                             |
| accelerator                    | 催速劑；加速器                         |
| acceptor                       | 受子；受體；受素；接受器                    |
| acceptor impurity              | 受體不純物                           |
| acceptor level                 | 受體能階                            |
| accessory mineral              | 附生礦物                            |
| accommodation                  | 適應；調節；容納                        |
| accommodative intraocular lens | 可調式人工水晶體                        |
| accumulation layer             | 堆積層                             |
| accumulator metal              | 鉛酸蓄電池合金 { 鉛酸蓄電池電極用之鉛合金 }        |
| accuracy                       | 精度                              |
| accuracy test                  | 精度試驗                            |
| acetabular cup                 | 髌臼杯                             |
| acetate complexation           | 醋酸鹽錯合；醋酸鹽絡合                     |
| acetone                        | 丙酮                              |
| acetylene                      | 乙炔                              |
| acetylene black                | 乙炔碳黑 { 磷酸燃料電池 }                 |

|                            |                   |
|----------------------------|-------------------|
| acetylene tetrabromide     | 四溴化乙炔             |
| Acheson furnace            | 艾其遜爐 { 製碳化矽用電弧爐 } |
| Acheson process            | 艾其遜法 { 用電弧爐製碳化矽 } |
| acicular cast iron         | 針狀鑄鐵              |
| acicular powder            | 針狀粉末              |
| acicular structure         | 針狀組織              |
| acid                       | 酸                 |
| acid Bessemer converter    | 酸性柏思麥轉爐           |
| acid Bessemer process      | 酸性柏思麥法            |
| acid Bessemer steel        | 酸性柏思麥鋼            |
| acid brick                 | 酸性磚               |
| acid brittleness           | 酸洗脆性              |
| acid bronze                | 耐酸青銅              |
| acid dip                   | 酸浸                |
| acid earth                 | 酸性土               |
| acid electric arc furnace  | 酸性電弧爐             |
| acid electric furnace      | 酸性電爐              |
| acid electrolyte fuel cell | 酸性電解質燃料電池         |
| acid embossing             | 酸刻                |
| acid etching               | 酸蝕                |
| acid flux                  | 酸性助熔劑             |
| acid frosting              | 酸霜法               |
| acid halide                | 酸性鹵化物；醯基鹵；鹵化醯基    |
| acid hearth                | 酸性爐床；酸性爐膛         |
| acid hydrolysis            | 酸性水解              |
| acid lining                | 酸性襯；酸性爐襯          |
| acid medium                | 酸性介質              |
| acid metalized dye         | 含金屬酸性染料           |
| acid number                | 酸值                |
| acid open-hearth furnace   | 酸性平爐              |
| acid open-hearth process   | 酸性平爐法             |
| acid open-hearth steel     | 酸性平爐鋼             |
| acid oxide                 | 酸性氧化物             |

|                                 |  |
|---------------------------------|--|
| acid pickling                   | 酸洗                                       |
| acid pig iron                   | 酸性生鐵                                     |
| acid polishing                  | 酸磨光                                      |
| acid process                    | 用酸作業                                     |
| acid proof alloy                | 耐酸合金                                     |
| acid proof cast iron            | 耐酸鑄鐵                                     |
| acid refractory                 | 酸性耐火材                                    |
| acid refractory material        | 酸性耐火材料                                   |
| acid resisting cast iron        | 耐酸鑄鐵                                     |
| acid resisting enamel           | 抗酸珐瑯；抗酸搪瓷                                |
| acid resisting steel            | 耐酸鋼                                      |
| acid slag                       | 酸性渣                                      |
| acid steel                      | 酸性鋼                                      |
| acid-core solder                | 酸心軟鐸條                                    |
| acidic component                | 酸性成分                                     |
| acidic rock                     | 酸性岩                                      |
| acidity                         | 酸度                                       |
| acidolysis                      | 酸解                                       |
| acid-pickling inhibitor         | 酸洗抑蝕劑                                    |
| acid-proof brick                | 耐酸磚                                      |
| acid-proof cement               | 耐酸水泥                                     |
| aconitic acid triester          | 烏頭酸三酯                                    |
| acoustic absorption coefficient | 吸音係數                                     |
| acoustic energy                 | 音能                                       |
| acoustic fatigue                | 音波疲勞 { 亦稱 sonic fatigue，為由噪音或亂氣流所產生之疲勞 } |
| acoustic impedance              | 音阻                                       |
| acoustic isolation              | 隔音                                       |
| acoustic mill                   | 音控磨機                                     |
| acoustic property               | 聲學性質                                     |
| acoustic tile                   | 吸音磚                                      |
| acoustics                       | 聲學                                       |
| acousto-optic material          | 聲光材料                                     |

|                                       |                    |
|---------------------------------------|--------------------|
| acrylonitrile butadiene styrene (ABS) | 丙烯腈 - 丁二烯 - 苯乙烯共聚物 |
| actin filament                        | 肌動蛋白絲              |
| actinide series                       | 錒化合物系列             |
| actinium (Ac)                         | 錒                  |
| actinolite                            | 陽起石                |
| actino-uranium                        | 錒鈾                 |
| action spectrum                       | 作用光譜               |
| activated absorption                  | 活性吸著               |
| activated alumina                     | 活性氧化鋁              |
| activated atom                        | 活性原子               |
| activated carbon                      | 活性碳                |
| activated charcoal                    | 活性炭；活性木炭           |
| activated diffusion                   | 活化擴散               |
| activation                            | 活性化；活化             |
| activation analysis                   | 活化分析               |
| activation energy                     | 活化能                |
| activation overvoltage                | 活化過電壓              |
| activation polarization               | 活化極化               |
| activation-coupling technique         | 活化偶合技術             |
| activator                             | 活化劑                |
| active carbon                         | 活性碳                |
| active clay                           | 活性黏土               |
| active material                       | 活性材料               |
| active region                         | 活性區                |
| active site                           | 活性部位               |
| active-passive metal                  | 活性-鈍態金屬            |
| active-passive transition             | 活性-鈍態轉換            |
| activity                              | 活性；活度              |
| activity coefficient                  | 活性係數               |
| activity index                        | 活性指數               |
| actuator                              | 致動器                |
| acute inflammation                    | 急性發炎               |
| acute toxicity                        | 急毒性                |

|                               |             |
|-------------------------------|-------------|
| adapter brick                 | 楔磚          |
| adaptive immunity             | 適應性免疫       |
| adaptor                       | 接頭          |
| adaptor molecule              | 承接分子        |
| adatom                        | 吸附原子        |
| addition agent                | 添加劑         |
| addition polymer              | 加成聚合體       |
| addition polymerization       | 加成聚合        |
| additive                      | 添加劑         |
| additive process              | 添加法         |
| adenosine diphosphate (ADP)   | 二磷酸腺苷       |
| adenosine monophosphate (AMP) | 單磷酸腺苷       |
| adenosine triphosphate (ATP)  | 三磷酸腺苷       |
| adherence test                | 黏著試驗        |
| adherend                      | 黏附體；黏著體；黏著物 |
| adherens junction             | 黏著接合        |
| adhesion                      | 黏著；黏結       |
| adhesion force                | 附著力         |
| adhesion molecule             | 黏結分子        |
| adhesion promoter             | 助黏劑；接著促進劑   |
| adhesion protein              | 黏結蛋白        |
| adhesion strength             | 附著強度        |
| adhesion test                 | 黏著試驗；接著試驗   |
| adhesive                      | 黏合劑；附著      |
| adhesive composition          | 黏著劑組成       |
| adhesive joint                | 黏著接點；黏著接合   |
| adhesive mask technique       | 黏著遮罩技術      |
| adhesive tape                 | 黏膠帶         |
| adhesive-coated paper         | 黏著劑塗覆紙      |
| adiabatic calorimeter         | 絕熱卡計；絕熱式量熱計 |
| adiabatic change              | 絕熱變化        |
| adiabatic compression         | 絕熱壓縮        |

|                                    |            |
|------------------------------------|------------|
| adiabatic cracking                 | 絕熱裂解       |
| adiabatic curve                    | 絕熱曲線       |
| adiabatic deformation              | 絕熱變形       |
| adiabatic demagnetization          | 絕熱去磁       |
| adiabatic elasticity               | 絕熱彈性       |
| adiabatic equation                 | 絕熱方程式      |
| adiabatic expansion                | 絕熱膨脹       |
| adiabatic gradient                 | 絕熱梯度       |
| adiabatic heating                  | 絕熱加熱       |
| adiabatic invariance               | 絕熱不變性      |
| adiabatic invariant                | 絕熱不變量      |
| adiabatic potential                | 絕熱電位；絕熱位能  |
| adiabatic principle                | 絕熱原理       |
| adiabatic process                  | 絕熱過程       |
| adiabatic system                   | 絕熱系統       |
| adiabatic true stress-strain curve | 絕熱真應力-應變曲線 |
| adjustable die                     | 可調模具       |
| adjustable gauge                   | 可調量規       |
| adjustable mandrel                 | 可調心軸       |
| admiralty brass                    | 海將黃銅       |
| admiralty gun-metal                | 海將砲銅       |
| admiralty metal                    | 海將金屬       |
| admixture                          | 摻和物        |
| adobe                              | 土磚；晒乾磚     |
| adsorbed film                      | 吸附膜        |
| adsorbed layer                     | 吸附層        |
| adsorption                         | 吸附[作用]     |
| adsorption birefringence           | 吸附雙折射      |
| adsorption chromatography          | 吸附層析法      |
| adsorption energy                  | 吸附能        |
| adsorption isotherm                | 吸附等溫線      |
| adularia                           | 冰長石        |

|  |               |
|--|---------------|
| advanced ceramics                      | 精密陶瓷材料；尖端陶瓷材料 |
| advanced gas-cooled reactor (AGR)      | 進步型氣冷反應器      |
| advanced material                      | 尖端材料；先進材料     |
| aegirite                               | 鈍鈉輝石          |
| aerated concrete                       | 充氣混凝土         |
| aeration                               | 充氣[法]         |
| aeration cell                          | 充氣電池          |
| aerator                                | 鬆砂機；充氣器；通風裝置  |
| aerobic bacteria                       | 好氧細菌          |
| aeroclay                               | 風簸黏土          |
| aerogel                                | 氣凝膠           |
| aerograph                              | 噴霧器；噴氣染色      |
| aerolite                               | 隕石            |
| aerosol                                | 氣溶膠；氣膠；霧劑     |
| aerosol pyrolysis                      | 氣溶膠熱解         |
| aerosol reactor                        | 氣溶膠反應器        |
| aerosol synthesis                      | 氣溶膠合成         |
| aerosol-gel process                    | 氣溶膠凝膠製程       |
| aerosol-spray coating                  | 氣溶膠噴塗；氣溶膠噴塗層  |
| aerospace application                  | 太空用途          |
| aerospace corrosion                    | 太空腐蝕          |
| aerospace material                     | 太空材料          |
| Aerospace Material Specification (AMS) | 太空材料規格 { 美國 } |
| aerugo                                 | 銅綠            |
| affinity                               | 親和性           |
| affinity laws of pump                  | 泵親和定律         |
| after blow                             | 後期吹煉；後期吹風     |
| after contraction                      | 後收縮           |
| afterchrome method                     | 鉻酸鹽後處理法       |
| after-treatment                        | 後處理           |
| agalmatolite                           | 壽山石           |
| agalmatolite brick                     | 蜡石磚；壽山石磚      |

|                              |                               |
|------------------------------|-------------------------------|
| agar                         | 洋菜；洋菜凍                        |
| agar-agar                    | 洋菜；洋菜凍                        |
| agarose                      | 洋菜糖；瓊脂糖                       |
| agate                        | 瑪瑙                            |
| age                          | 老化                            |
| age hardening                | 時效硬化                          |
| age resister                 | 抗老劑                           |
| agglomerate                  | 團粒；團聚粒                        |
| agglomerated structure       | 聚結組織                          |
| agglomerating                | 凝聚                            |
| agglomeration                | 凝聚；軟凝聚；軟聚結；軟結塊                |
| aggregate                    | 凝聚體；聚集體；團聚體；粒料；骨材；硬凝聚；硬聚結；硬結塊 |
| aggregate sculpture          | 凝聚體塑像                         |
| aging                        | 老化；時效                         |
| aging crack                  | 時效裂紋；時效裂痕                     |
| aging range                  | 時效溫度範圍                        |
| aging test                   | 老化試驗；時效試驗                     |
| agitation                    | 攪拌                            |
| agitator                     | 攪拌器                           |
| Ag-oxide-H <sub>2</sub> cell | 氧化銀-氫氣電池                      |
| A-grain                      | 高鋁顆粒                          |
| agricultural application     | 農業用途                          |
| agricultural steel           | 農具鋼 { 0.25%-0.5%C }           |
| aguadag                      | 膠態石墨                          |
| Aharanov-Bohm effect         | 阿哈拉諾夫-玻姆效應                    |
| air                          | 空氣                            |
| air analysis                 | 空氣分析                          |
| air analyzer                 | 空氣分析器                         |
| air atomization              | 空氣霧化                          |
| air belt                     | 風帶；風箱                         |
| air bending                  | 空中彎折                          |
| air blast                    | 鼓風                            |

|                          |         |
|--------------------------|---------|
| air blast quenching      | 強風淬火    |
| air blasting             | 鼓風      |
| air box                  | 風箱      |
| air brick                | 通風磚     |
| air bubble               | 空氣氣泡    |
| air burner               | 噴燈      |
| air carbon-arc cutting   | 空氣碳弧切割  |
| air chamber              | 氣室      |
| air channel              | 氣路      |
| air chuck                | 氣動夾頭    |
| air classification       | 空氣分級    |
| air compression system   | 空氣壓縮系統  |
| air compressor           | 空氣壓縮機   |
| air contaminant          | 空氣污染物   |
| air content test         | 空氣含量試驗  |
| air cooling              | 氣冷；空冷   |
| air deposited clay       | 風積黏土    |
| air dried strength       | 風乾強度    |
| air dry                  | 風乾      |
| air dry fiber            | 風乾纖維    |
| air duct                 | 導氣管     |
| air entraining admixture | 輸氣攪加物   |
| air entraining agent     | 輸氣劑；拌沫劑 |
| air entraining cement    | 拌沫水泥    |
| air floated powder       | 風簸粉     |
| air flue                 | 空氣道     |
| air furnace              | 空氣爐     |
| air gap                  | 空氣隙     |
| air gas furnace          | 煤氣爐     |
| air gauge                | 空氣量規    |
| air gun                  | 氣槍；空氣槍  |
| air hammer               | 空氣槌     |
| air hardening            | 風硬      |
| air hardening steel      | 風硬鋼     |



|                            |            |
|----------------------------|------------|
| air hole                   | 氣孔         |
| air leakage test           | 漏氣試驗       |
| air line filter            | 風管過濾器      |
| air melting                | 大氣熔解       |
| air meter                  | 氣量計        |
| air nozzle                 | 空氣噴嘴       |
| air patenting              | 空氣軋化       |
| air permeability           | 透氣性        |
| air pollutant              | 空氣污染物      |
| air port                   | 通氣口        |
| air preheater              | 空氣預熱器      |
| air pressure               | 氣壓         |
| air quenching cooler       | 空氣淬火冷卻機    |
| air rammer                 | 氣動撞槌       |
| air seal                   | 氣封         |
| air seasoning              | 大氣季化       |
| air separator              | 空氣分離機      |
| air set process            | 風硬[造模]法    |
| air setting                | [常溫]空氣自硬法  |
| air shrinkage              | 風乾收縮       |
| air sieve                  | 空氣篩        |
| air slide conveyor         | 滑運機        |
| air toughening             | 空氣軋化[法]    |
| air uptake                 | 空氣喉道       |
| air vent                   | 透氣孔        |
| air weight control         | 風量控制       |
| air-acetylene              | 空氣 - 乙炔    |
| air-annealing              | 空氣退火       |
| air-borne sound absorption | 空傳吸音       |
| aircomatic welding         | 氣體自動[電弧]熔接 |
| aircraft quality steel     | 航空級用鋼      |
| air-doctor coater          | 氣動刮刀塗佈機    |
| air-dried sheet            | 風乾片        |
| air-driven hammer          | 氣動鎚        |

|                                    |                         |
|------------------------------------|-------------------------|
| air-drying paint                   | 風乾油漆                    |
| air-entrained concrete             | 伴沫混凝土                   |
| air-flow patterns                  | 氣流模式                    |
| air-guiding photonic bandgap fiber | 氣導型光子能隙纖維               |
| air-hydrogen fuel cell battery     | 空氣氫氣燃料電池                |
| air-knife coating                  | 氣動刮刀塗佈                  |
| airless blast cleaner              | 離心噴砂機                   |
| airless blast cleaning             | 離心噴光法                   |
| airless spraying                   | 無氣噴塗                    |
| air-lift gravity drop hammer       | 氣提自落槌                   |
| air-setting refractory             | 風凝耐火材                   |
| air-slaked lime                    | 風化石灰                    |
| air-textured yarn                  | 氣撚紗                     |
| AISI-SAE code number               | 美國鋼鐵協會-美國工程師學會符號 { 記號 } |
| alabaster                          | 雪花石膏; 純白生石膏             |
| alabaster glass                    | 雪花玻璃                    |
| alabaster ware                     | 雪花[骨灰]瓷                 |
| Albany glaze                       | 阿邦尼釉                    |
| albata                             | 洋銀 { 銅鎳鋅合金 }            |
| albertite                          | 黑瀝青                     |
| albite                             | 鈉長石; 曹長石; 蘇打長石          |
| albumen                            | 蛋白                      |
| albumin                            | 白蛋白                     |
| Alcan                              | 加拿大鋁業公司                 |
| alchemy                            | 鍊丹術; 煉金術                |
| alclad                             | 鋁夾板; 鋁包層                |
| alclad alloy                       | 鋁包層合金                   |
| Alcoa                              | 美國鋁業公司                  |
| alcohol                            | 酒精                      |
| alcohol dehydrogenase              | 酒精脫氫酶; 酒精去氫酶            |
| alcohol sensor                     | 酒精感測器                   |

|                           |   |
|---------------------------|---|
| alcoholysis               | 醇解  |
| alcove                    | 流槽  |
| aldehyde                  | 醛   |
| aldehyde peroxide         | 醛過氧化物                                       |
| aldehyde polymer          | 醛類聚合物                                       |
| aldehyde tannage          | 醛鞣法   |
| aldehyde-amine reaction   | 醛胺反應  |
| aldip process             | 浸鋁法 { 鋁的熱浸法 }                               |
| aldoketene                | 醛乙烯酮  |
| aldolase                  | 醛醇酶   |
| aleuritic acid            | 紫膠桐酸；蟲膠酸                                    |
| Alfenide                  | 鍍銀之鎳銀合金                                     |
| alfenol                   | 鋁鐵磁材 { 含 14-18%Al，其餘為 Fe，具高導磁率，低磁滯，優良耐氧化性 } |
| alfin catalysis           | 醇鈉烯催化作用                                     |
| alfin catalyst            | 醇類聚烯觸媒                                      |
| al-fin process            | 鋁鍍法 { 以鋁鍍覆鋼面之熱浸法 }                          |
| algae                     | 藻   |
| algin                     | 海藻  |
| alginate                  | 褐藻酸鹽  |
| alginate fiber            | 海藻纖維  |
| alginic acid              | 褐藻酸   |
| alicyclic amine           | 脂環胺   |
| alicyclic ring            | 脂環族環  |
| aliphatic acid            | 脂族酸；脂肪酸                                     |
| aliphatic amine           | 脂族胺   |
| aliphatic azo compound    | 脂族偶氮化合物                                     |
| aliphatic glycidyl ether  | 脂族環氧醚                                       |
| aliphatic homopolyurea    | 脂族聚脲  |
| aliphatic hydrocarbon     | 脂族烴   |
| aliphatic olefin          | 脂族烯   |
| aliphatic polyester resin | 脂族聚酯樹脂                                      |
| aliphatic polyimide       | 脂族聚亞醞胺                                      |

|   |                   |
|---|-------------------|
| aliphatic polyurethane                  | 脂族聚胺甲酸乙酯          |
| alite                                   | 矽酸三鈣              |
| alizarin maroon                         | 茜素栗色              |
| alkali                                  | 鹼                 |
| alkali aging                            | 鹼性老化              |
| alkali battery                          | 鹼性電池              |
| alkali borohydride                      | 硼氫化鹼金屬            |
| alkali cellulose                        | 鹼化纖維素             |
| alkali cement                           | 高鹼水泥              |
| alkali cleaning                         | 鹼洗                |
| alkali curing                           | 鹼性硬化              |
| alkali embrittlement                    | 鹼脆性               |
| alkali halide                           | 鹼金屬鹵化物            |
| alkali metal                            | 鹼金屬               |
| alkali metal acetylizer                 | 乙炔化金屬             |
| alkali metal carboxylate                | 羧酸鹼金屬鹽            |
| alkali metal catalyst                   | 鹼金屬觸媒             |
| alkali metal fulleride                  | 鹼金屬富勒稀鹽           |
| alkali metal-ammonia                    | 氨鹼金屬              |
| alkali-aggregate expansion inhibitor    | 鹼性骨材膨脹抑制劑         |
| alkali-aggregate reaction               | 鹼性骨材反應            |
| alkali-catalyzed reaction               | 鹼觸媒反應             |
| alkaline catalysis                      | 鹼性催化作用            |
| alkaline cleaning                       | 鹼洗                |
| alkaline degradation                    | 鹼性降解              |
| alkaline earth compound                 | 鹼土化合物             |
| alkaline earth metal                    | 鹼土金屬              |
| alkaline earth sulfide                  | 鹼土硫化物             |
| alkaline electrolyte                    | 鹼性電解質             |
| alkaline falling film fuel cell (AFFFC) | 鹼性降膜燃料電池；鹼性落膜燃料電池 |
| alkaline falling film fuel cell (FFFC)  | 鹼性降膜燃料電池          |
| alkaline fuel cell (AFC)                | 鹼性燃料電池            |
| alkaline glaze                          | 鹼性釉               |

|                                   |                              |
|-----------------------------------|------------------------------|
| alkaline hydrogen oxygen cell     | 鹼性氫氧電池                       |
| alkaline hydrolysis               | 鹼性水解                         |
| alkaline metal-air cell           | 鹼性金屬-空氣電池                    |
| alkaline MnO <sub>2</sub> battery | 鹼性二氧化錳電池                     |
| alkalinity                        | 鹼度                           |
| alkane thiol surfactant           | 烷烴硫醇表面活性劑                    |
| alkanethiol                       | 烷烴硫醇                         |
| alkanethiolate                    | 烷烴硫醇鹽                        |
| alkoxide                          | 醇鹽                           |
| alkyl thiol                       | 烷基硫醇                         |
| all-base furnace                  | 全鹼性爐                         |
| allergen                          | 過敏原                          |
| allergy                           | 過敏性                          |
| alligator effect                  | 鱷皮狀效應 { 晶體之塑性變形而產生表面粗糙之金屬片 } |
| alligator shear                   | 鱷嘴剪機                         |
| alligator skin                    | 鱷皮狀表面                        |
| all-mine pig-iron                 | 原礦生鐵                         |
| alogeneic cell                    | 異體細胞                         |
| allograft                         | [同種]異體移植 ; [同種]異體移植體         |
| allomeric                         | 同晶異質                         |
| allomorphous                      | 同質異晶                         |
| allophane                         | 鋁英石                          |
| allosteric inhibition             | 異位抑制                         |
| allotriomorphic crystal           | 同素他形晶體                       |
| allotrope                         | 同素異形體                        |
| allotropic transformation         | 同素異形轉變 ; 同素異形變態              |
| allotropy                         | 同素異形                         |
| allowable stress                  | 容許應力                         |
| allowance                         | 裕度                           |
| allowed band                      | 容許帶                          |
| alloy                             | 合金                           |
| alloy carbide                     | 合金碳化物                        |

|   |  |
|---|--|
| alloy cast iron                         | 合金鑄鐵                                   |
| alloy element                           | 合金元素                                   |
| alloy interconnect                      | 合金連接材                                  |
| alloy pig iron                          | 合金生鐵                                   |
| alloy plating                           | 合金電鍍 ; 合金鍍膜                            |
| alloy powder                            | 合金粉末                                   |
| alloy steel                             | 合金鋼                                    |
| alloy steel casting                     | 合金鋼鑄件                                  |
| alloy strip                             | 合金[鋼]帶 ; 合金帶                           |
| alloy tool steel                        | 合金工具鋼                                  |
| alloys shape memory effect (SME)        | 形狀記憶合金                                 |
| alluvial clay                           | 沖積黏土                                   |
| alluvial deposits                       | 沖積沉積物                                  |
| almandine                               | 鐵鋁榴石                                   |
| alnico                                  | 亞力可 { 鋁鎳鈷磁鐵 }                          |
| alnico alloy                            | 亞力可合金                                  |
| aloxite                                 | 剛鋁石 ; 鋁砂                               |
| Alpha atom                              | α原子                                    |
| alpha brass                             | α黃銅                                    |
| alpha bronze                            | α青銅                                    |
| alpha helix                             | 阿爾發螺旋 ; α-螺旋                           |
| alpha-beta titanium alloy               | α-β鈦合金                                 |
| alpha-iron                              | α-鐵                                    |
| alpha-particle                          | α-粒子                                   |
| alplate process                         | 覆鋁法                                    |
| alsifer                                 | 鋁矽鐵磁材 { 一種 40%Fe · 40%Si · 20%Al 之合金 } |
| alteration                              | 交變                                     |
| alternate firing                        | 交互燒製                                   |
| alternate wet and dry test              | 交替乾溼試驗                                 |
| alternating bend test                   | 反覆彎曲試驗                                 |
| alternating coordination polymerization | 交替配位聚合 ; 交互配位聚合                        |
| alternating copolyester                 | 交替共聚酯                                  |

|  |                           |
|--|---------------------------|
| alternating copolymer                      | 交替共聚合物                    |
| alternating polyurea                       | 交替聚脲                      |
| alternating stress                         | 交替應力；反覆應力                 |
| alternating-current                        | 交流電                       |
| alternating-current characteristic         | 交流電特性                     |
| alternation tendency                       | 交替傾向                      |
| aludip                                     | 浸鋁鋼片 { 以熱浸法鍍鋁之鋼片 }        |
| alum                                       | 明礬                        |
| alumel                                     | 亞鋁美 { 熱電偶用 98%Ni · 2%Al } |
| alumel-chromel thermocouple                | 亞鋁美 - 克鉻美熱電偶              |
| alumilite cement                           | 高鋁水泥                      |
| alumina                                    | 氧化鋁                       |
| alumina brick                              | 氧化鋁磚                      |
| alumina cement                             | 礬土水泥                      |
| alumina procelain                          | 高鋁瓷器                      |
| alumina whiteware                          | 高鋁白瓷器                     |
| alumina-silica refractory                  | 矽鋁耐火材                     |
| aluminium (Al)                             | 鋁                         |
| aluminizing                                | 滲鋁法                       |
| alumino-nickel                             | 鋁鎳合金                      |
| alumino-silicate                           | 鋁矽磚                       |
| aluminosilicate                            | 鋁矽酸鹽                      |
| aluminosiloxane polymer                    | 鋁矽氧烷聚合物                   |
| aluminothermal reduction alloy (ATR alloy) | 鋁熱還原合金 { 以鋁熱還原方法製作之鋁鎳合金 } |
| alumino-thermic process                    | 鋁熱法                       |
| aluminous cement                           | 高鋁水泥                      |
| aluminum alkoxide                          | 烷氧化鋁                      |
| aluminum alloy                             | 鋁合金                       |
| aluminum alloy casting                     | 鋁合金鑄件                     |
| aluminum brass                             | 鋁黃銅                       |
| aluminum bronze                            | 鋁青銅                       |

|                                    |   |
|------------------------------------|---|
| aluminum calcium phosphate         | 磷酸鋁鈣；鋁鈣磷酸鹽  |
| aluminum cast iron                 | 鋁鑄鐵   |
| aluminum catalyst                  | 鋁觸媒   |
| aluminum compound                  | 鋁化合物  |
| aluminum deoxidation               | 加鋁脫氧  |
| aluminum fiber                     | 鋁纖維   |
| aluminum foil                      | 鋁箔  |
| aluminum halide                    | 鹵化鋁   |
| aluminum ink                       | 鋁墨汁   |
| aluminum ion                       | 鋁離子   |
| aluminum oxide ceramic             | 氧化鋁陶瓷   |
| aluminum oxide fiber               | 氧化鋁纖維   |
| aluminum oxide tool                | 氧化鋁刀具   |
| aluminum oxide whisker             | 氧化鋁晶鬚   |
| aluminum oxygen-silicon polymer    | 鋁氧矽聚合物  |
| aluminum paint                     | 鋁漆  |
| aluminum polymer                   | 鋁聚合物  |
| aluminum removal                   | 除鋁劑   |
| aluminum silicate fiber            | 矽酸鋁纖維   |
| aluminum soap                      | 鋁皂  |
| aluminum solder                    | 鋁軟錒料  |
| aluminum soldering                 | 鋁軟錒   |
| aluminum-air system                | 鋁-空氣系統  |
| aluminum-filled epoxy resin        | 填鋁環氧樹脂  |
| aluminum-lithium alloy             | 鋁鋰合金  |
| aluminum-nitrogen polymer          | 鋁氮聚合物   |
| aluminum-oxygen polymer            | 鋁氧聚合物   |
| aluminum-oxygen-phosphorus polymer | 鋁氧磷聚合物  |
| aluminum-tin bearing               | 鋁錫軸承 { 一種輕軸承金屬 · 10%Sn · 0.5%P · 0.25%Pb · 其餘為鋁 } |
| alumite process                    | 鋁陽極氧化法  |

|   |   |
|---|---|
| alundum   | 剛鋁石   |
| alunite   | 明礬石   |
| alveolar bone                                   | 齒槽骨   |
| amacrine cell                                   | 無長突神經細胞   |
| amalgam   | 汞齊  |
| amalgamate                                      | 汞齊化   |
| amalgamation                                    | 汞齊法   |
| amber   | 琥珀  |
| amber blanket                                   | 琥珀色膠泡   |
| amber colophony                                 | 琥珀松香  |
| amber glass                                     | 琥珀色玻璃   |
| ambipolar coupling                              | 雙載子耦合   |
| ambipolar diffusion theory                      | 雙載子擴散理論   |
| amblygonite                                     | 磷鋁石   |
| ambraloy  | 安培樂合金 { 鋁青銅系列合金 }   |
| Ambrose alloy                                   | 安布洛白銅 { 含 65-75%Cu · 20-30%Ni · 5%Zn · 0.5%Mn · 類似於 nickle-silver } |
| American Concrete Institute (ACI)               | 美國混凝土學會   |
| American fossil resin                           | 美洲化石樹脂  |
| American Iron and Steel Institute (AISI)        | 美國鋼鐵協會  |
| American Petroleum Institute (API)              | 美國石油學會  |
| American Society for Testing Materials (ASTM)   | 美國材料試驗學會  |
| American Society of Mechanical Engineers (ASME) | 美國機械工程師學會   |
| Ames Salmonella mutation assay                  | 艾姆斯沙門氏菌突變檢定法  |
| amethyst  | 紫水晶   |
| amidation reaction                              | 醯胺化反應   |
| amide   | 醯胺  |
| amide bond                                      | 醯胺鍵   |
| amide interchange                               | 醯胺交換  |

|  |                |
|--|----------------|
| amide lubricant                        | 醯胺潤化劑          |
| amide solvent                          | 醯胺溶劑           |
| amidine nitrite                        | 亞硝酸脒           |
| aminated polyphosphazene               | 胺基聚磷腈          |
| amination                              | 胺化反應           |
| amine                                  | 胺              |
| amine solvent                          | 胺溶劑            |
| amine-exchange polymerization reaction | 胺交換聚合反應        |
| amine-peroxide system                  | 胺過氧系統          |
| amino acid                             | 胺基酸            |
| amino acid residue                     | 胺基酸殘留物         |
| amino acid sequence                    | 胺基酸序列          |
| amino group                            | 胺基             |
| amino resin                            | 胺基樹脂           |
| aminoalkylsilane                       | 胺基烷基矽烷         |
| amino-formaldehyde resin               | 胺甲醛樹脂          |
| aminolysis                             | 胺解             |
| aminotriazole polymer                  | 胺三唑聚合物         |
| ammonia                                | 氨              |
| ammonia carburizing                    | 氨滲碳            |
| ammonia dissociation                   | 氨分解            |
| ammonia leaching                       | 氨水浸濾； 氨水浸洗     |
| ammonia-oxygen fuel cell               | 氨-氧燃料電池        |
| ammonium acrylate                      | 丙烯酸銨           |
| ammonolysis                            | 氨解             |
| amorphicity                            | 非晶性；非結晶度       |
| amorphous                              | 非晶的            |
| amorphous alloy                        | 非晶質合金          |
| amorphous birefringence                | 非晶雙折射          |
| amorphous bubble material              | 非晶氣泡材料         |
| amorphous calcium phosphate (ACP)      | 非晶質磷酸鈣；非晶質鈣磷酸鹽 |
| amorphous carbon                       | 非晶碳            |

|                                 |                |
|---------------------------------|----------------|
| amorphous cement hypothesis     | 非晶質填充說         |
| amorphous graphite              | 非晶質石墨          |
| amorphous material              | 非晶質材料；非晶態材料    |
| amorphous metal                 | 非晶質金屬          |
| amorphous nanostructure         | 非晶奈米結構         |
| amorphous phase                 | 非晶相            |
| amorphous polymer               | 非晶聚合物          |
| amorphous region                | 非晶區            |
| amorphous silicon               | 非晶矽            |
| amorphous solid                 | 非晶固體           |
| amorphous state                 | 非晶質狀態          |
| amorphous theory                | 非晶質學說          |
| amosite                         | 石棉礦            |
| amount of finish                | 加工量            |
| Ampco metal                     | 安柯金屬 { 一種鋁青銅 } |
| amphibious suit                 | 水陸兩用衣          |
| amphibious vehicle              | 兩性煤液           |
| amphibole                       | 閃石             |
| amphibole                       | 角閃石            |
| amphoteric element              | 兩性元素           |
| amphoteric emulsifier           | 兩性乳化劑          |
| amphoteric refractory           | 中性耐火材          |
| amphoteric resin                | 兩性樹脂           |
| amphoteric surface-active agent | 兩性界面活性劑        |
| amphoteric surfactant           | 酸鹼兩性表面活性劑      |
| ampoule                         | 安瓿 { 密封管 }     |
| amylase                         | 澱粉酶            |
| amylopectin                     | 分枝型澱粉；支鏈型澱粉    |
| amylopsin                       | 胰澱粉酶           |
| amylose                         | 直鏈澱粉           |
| amylose complex                 | 直鏈型澱粉錯合物       |
| amylose film                    | 直鏈型澱粉膜         |

|                                    |                           |
|------------------------------------|---------------------------|
| amylose gel                        | 直鏈澱粉凝膠                    |
| amylose starch                     | 直鏈型澱粉類澱粉                  |
| analysis                           | 分析                        |
| analytical technique               | 分析技術                      |
| analytical ultracentrifuge         | 分析用超離心機                   |
| analyzer                           | 分析儀；析光鏡                   |
| anaphylaxis                        | 過敏 { 第一型 }                |
| anatase                            | 銳鈦礦 { TiO <sub>2</sub> }  |
| anatomical alloys                  | 骨外科合金                     |
| anchor post                        | 撐柱                        |
| anchoring group                    | 錨定基                       |
| andalusite                         | 紅柱石                       |
| Anderson localization              | 安德森局域化                    |
| andesine                           | 中性長石                      |
| andesite                           | 安山石                       |
| Andrades law of transient creep    | 安瑞德過渡潛變定律                 |
| andradite                          | 鈣鐵石榴石                     |
| anelastic creep                    | 滯彈性潛變                     |
| anelastic strain                   | 滯彈性應變                     |
| anelasticity                       | 滯彈性                       |
| anemometer                         | 風速計                       |
| angiogenesis                       | 血管生成                      |
| angioplasty                        | 血管成形術；血管擴張術               |
| angiotensin receptor blocker (ARB) | 血管收縮素受體抑制劑                |
| angle                              | 角形料                       |
| angle bar                          | 角鐵                        |
| angle of aperture                  | 孔徑角 { 顯微鏡 }               |
| angle of bite                      | 咬角 { 軋輥 }                 |
| angle of rotation                  | 旋轉角                       |
| angle steel                        | 角鋼                        |
| anglesite                          | 鉛礬                        |
| Angstrom (Å)                       | 埃 { 10 <sup>-8</sup> cm } |
| angular velocity                   | 角速度                       |

|                                      |                   |
|--------------------------------------|-------------------|
| anhedron                             | 他形晶               |
| anhydride                            | 酸酐                |
| anhydrite                            | 硬石膏；無水石膏          |
| anhydrocellulose                     | 脫水纖維素             |
| anhydroglucose                       | 脫水葡萄糖             |
| anilides                             | 醯胺苯               |
| aniline black                        | 苯胺黑               |
| aniline-formaldehyde resin           | 苯胺甲醛樹脂            |
| animal blood                         | 動物血               |
| animal cell                          | 動物細胞              |
| animal fiber                         | 動物纖維              |
| animal glue                          | 動物膠               |
| animal wax                           | 動物蠟               |
| anion                                | 陰離子               |
| anion-exchange material              | 陰離子交換材料           |
| anionic catalyst                     | 陰離子觸媒             |
| anionic coordinate polymerization    | 陰離子配位聚合           |
| anionic copolymerization             | 陰離子共聚合            |
| anionic emulsifier                   | 陰離子乳化劑            |
| anionic grafting                     | 陰離子接枝             |
| anionic isomerization polymerization | 陰離子異構聚合           |
| anionic living polymerization        | 陰離子活聚合反應          |
| anionic polymerization               | 陰離子聚合             |
| anionic surface-active agent         | 陰離子表面活性劑          |
| anisometric protein                  | 不等軸蛋白             |
| anisothermal diagram                 | 非恆溫[轉變]圖；非恆溫[變態]圖 |
| anisothermal transformation          | 非恆溫轉變；非恆溫變態       |
| anisotropic etching                  | 異向性蝕刻             |
| anisotropic interaction              | 異向交互作用            |
| anisotropic molecule                 | 異向分子              |
| anisotropic substance                | 異向性物質             |

|   |                           |
|---|---------------------------|
| anisotropic turbulence                        | 異向擾動                      |
| anisotropy                                    | 異向性                       |
| ankle joint replacement                       | 踝關節置換                     |
| annealed condition                            | 退火狀態                      |
| annealed material                             | 退火材料                      |
| annealed structure                            | 退火組織                      |
| annealing                                     | 退火 { 金屬 } ; 徐冷 { 陶瓷 }     |
| annealing box                                 | 退火箱                       |
| annealing embrittlement                       | 退火脆性                      |
| annealing furnace                             | 退火爐                       |
| annealing point                               | 徐冷點；退火點                   |
| annealing pot                                 | 退火罐                       |
| annealing temperature                         | 徐冷溫度 { 陶瓷 } ; 退火溫度 { 金屬 } |
| annealing texture                             | 退火織構                      |
| annealing twin                                | 退火雙晶                      |
| annular dark field (ADF) microscopy           | 環形暗場顯微術                   |
| annular kiln                                  | 環窯                        |
| annular spinneret                             | 環型紡嘴                      |
| anode   | 陽極                        |
| anode copper                                  | 陽極銅                       |
| anode corrosion efficiency                    | 陽極腐蝕效率                    |
| anode dissolution                             | 陽極分解                      |
| anode effect                                  | 陽極效應                      |
| anode efficiency                              | 陽極效率                      |
| anode material                                | 陽極材料                      |
| anode mud                                     | 陽極泥                       |
| anode passivation                             | 陽極鈍化                      |
| anode pickling                                | 陽極浸漬[法]                   |
| anode reaction                                | 陽極反應                      |
| anode slime                                   | 陽極泥                       |
| anodic aluminum oxide template (AAO template) | 陽極氧化鋁模板                   |
| anodic coating                                | 陽極鍍膜                      |

|                                       |                       |
|---------------------------------------|-----------------------|
| anodic control                        | 陽極控制                  |
| anodic electrochemical polymerization | 陽極電化學聚合               |
| anodic oxidation                      | 陽極氧化                  |
| anodic polarization                   | 陽極極化                  |
| anodic protection                     | 陽極防蝕                  |
| anodic reaction                       | 陽極反應                  |
| anodizing                             | 陽極處理； 陽極氧化            |
| anodizing treatment                   | 陽極處理                  |
| anolyte                               | 陽極電解液                 |
| anomalous sorption                    | 異常吸著                  |
| anorthite                             | 鈣斜長石                  |
| anorthoclase                          | 鈉微斜長石                 |
| antagonism                            | 對抗作用； 抵抗作用            |
| anthophyllite                         | 斜方角閃石                 |
| anthracite                            | 無煙煤                   |
| anthracite coal                       | 無煙煤                   |
| anthranilic acid                      | 鄰胺苯甲酸                 |
| anthraquinone dye                     | 蒽醌染料                  |
| anthraquinone pigment                 | 蒽醌顏料                  |
| antibacterial agent                   | 抗菌劑                   |
| antibiotic                            | 抗生素                   |
| antiblocking agent                    | 抗結塊劑                  |
| antibody                              | 抗體                    |
| antibody bead array                   | 抗體圓珠陣列                |
| antibody chip                         | 抗體晶片                  |
| anti-carburizer                       | 滲碳防止劑                 |
| anticorrosion aluminum                | 耐蝕鋁 { 可熱處理耐腐蝕的鋁合金系列 } |
| anti-corrosion                        | 耐蝕                    |
| anti-corrosion alloy                  | 耐蝕合金                  |
| anti-corrosion paint                  | 防鏽漆                   |
| anticorrosion pigment                 | 耐蝕顏料                  |
| antidegradant                         | 防崩劑                   |
| antidote                              | 解毒劑                   |

|                                 |                  |
|---------------------------------|------------------|
| antiferroelectric               | 反強電體的；反鐵電體的      |
| antiferromagnetical coupling    | 反鐵磁性耦合           |
| antiferromagnetism              | 反強磁性；反鐵磁性        |
| anti-ferromagnetism             | 反鐵磁性             |
| antifluorite structure          | 反螢石結構            |
| antifoaming agent               | 消泡劑；除沫劑          |
| anti-fouling compound           | 防污附化合物 { 船底油漆用 } |
| antifouling paint               | 防霉漆              |
| anti-friction metal             | 耐磨金屬；抗磨金屬        |
| antifume agent                  | 防煙劑              |
| antigen                         | 抗原               |
| antigenicity                    | 抗原性              |
| antimonial lead                 | 含銻鉛              |
| antimony (Sb)                   | 銻                |
| antimony compound               | 銻化合物             |
| antimony fluoroborate           | 氟硼酸銻             |
| antimony mercaptide stabilizer  | 硫醇銻安定劑           |
| antimony polymer                | 銻聚合物             |
| antimony yellow                 | 銻黃               |
| antimony-halogen synergism      | 銻鹵增效作用           |
| antioxidant                     | 抗氧化劑             |
| anti-oxidation                  | 抗氧化              |
| anti-oxidation additives        | 抗氧化添加劑           |
| antiozonant                     | 抗臭氧劑             |
| antiparallel spin configuration | 反平行自旋配置          |
| antiphase domain                | 逆相區              |
| anti-piping compound            | 冒口保溫劑            |
| antiplasticization              | 抗塑化作用            |
| anti-platelet agent             | 抗血小板劑            |
| antique glass                   | 仿古玻璃             |
| anti-reflection film            | 抗反射膜             |
| anti-rusting grease             | 防鏽脂              |



|                                    |               |
|------------------------------------|---------------|
| antisense nucleic acid             | 反股核酸          |
| antistatic agent                   | 抗靜電劑          |
| anti-static tile                   | 抗靜電磚          |
| antistick application              | 抗黏應用          |
| antisurfactant                     | 抗表面活性劑；抗界面活性劑 |
| anti-sweat insulation              | 防溼絕緣          |
| anvil                              | 砧             |
| apatite                            | 磷灰石           |
| apheresis                          | 析離術           |
| aplite                             | 半花岡岩          |
| Apollo alkaline fuel cell          | 阿波羅鹼性燃料電池     |
| Apollo spacecraft                  | 阿波羅太空船        |
| apoptosis                          | 細胞凋亡          |
| apparatus                          | 儀器；裝置；設備      |
| apparent density                   | 視密度           |
| apparent diffusion coefficient     | 視擴散係數         |
| apparent hardness                  | 視硬度           |
| apparent modulus                   | 視模數；表觀模數      |
| apparent porosity                  | 視孔隙度；視孔率      |
| apparent second Virial coefficient | 視第二維里係數       |
| apparent shear rate                | 視剪切率          |
| apparent specific gravity          | 視比重           |
| apparent viscosity                 | 視黏度           |
| aprotic solvent                    | 非質子型溶劑        |
| aqua regia                         | 王水            |
| aquadag                            | 膠體石墨；石墨水漿     |
| aquagel                            | 水凝膠           |
| aqueous dyeing                     | 水性染色          |
| aqueous galvanic cell              | 水系加凡尼電池       |
| aqueous polymerization             | 水性聚合          |
| Arabic gum                         | 阿拉伯膠          |
| arachin                            | 花生蛋白          |
| aragonite                          | 文石；霏石         |

|  |                 |
|--|-----------------|
| aragonitic nacreous layer              | 霏石質真珠層          |
| aralkyl ether                          | 芳烴醚             |
| arbor                                  | 心軸              |
| arborescent powder                     | 樹枝狀粉末           |
| arc brick                              | 拱磚              |
| arc cutting                            | 電弧切割            |
| arc furnace                            | 電弧爐             |
| arc resistance                         | 電弧阻抗            |
| arc spraying                           | 電弧噴塗[法]         |
| arc welding                            | 電弧銲接；電弧熔接       |
| arch brick                             | 拱磚              |
| arch-frame press                       | 拱架壓機            |
| architectural bronze                   | 建築青銅            |
| archless continuous kiln               | 無拱連續窯           |
| archless kiln                          | 無拱窯             |
| area specific resistance (ASR)         | 面積比電阻           |
| areal analysis                         | 面積分析            |
| arenaceous limestone                   | 矽質石灰石           |
| arenesulfonamide resin                 | 芳磺醯胺樹脂          |
| argillaceous limestone                 | 黏土質石灰石          |
| argillaceous material                  | 黏土質材料           |
| arginine-glycine-aspartic acid peptide | 精氨酸-甘氨酸-天門冬胺酸胜肽 |
| argon (Ar)                             | 氬               |
| argon arc welding                      | 氬弧銲接；氬弧熔接       |
| argon ionization detector              | 氬氣游離偵測器         |
| argon purifier                         | 氬純化器            |
| argonaut welding                       | 氬伴自動[電弧]銲接      |
| armchair structure                     | 扶手椅結構           |
| Armco iron                             | 亞姆克鐵 { 工業用純鐵 }  |
| armor plate                            | 裝甲板             |
| armour plate                           | 裝甲板             |
| armouring                              | 裝甲              |
| aromatic acid                          | 芳香酸             |

|                             |                   |
|-----------------------------|-------------------|
| aromatic amine              | 芳族胺               |
| aromatic copolyurea         | 芳香共聚脲             |
| aromatic dialdehyde         | 芳香族二醛             |
| aromatic diamine            | 芳香族雙胺             |
| arrest point                | 停留點               |
| Arrhenius conductivity plot | 阿瑞尼斯電導率圖          |
| Arrhenius equation          | 阿瑞尼斯方程式           |
| Arrhenius plot              | 阿瑞尼斯圖             |
| arrhythmias                 | 心律不整              |
| arris                       | 鋒石                |
| Arrott plot                 | 阿洛特圖              |
| arsenic (As)                | 砷                 |
| arsenic polymer             | 砷聚合物              |
| arsenical copper            | 含砷銅               |
| art marbles                 | 藝術大理石             |
| artery stent                | 動脈支架              |
| arthroplasty                | 關節置換術             |
| artic bronze                | 北極青銅 { 硬模鑄造含鉛青銅 } |
| articular cartilage         | 關節軟骨              |
| artificial age-hardening    | 人工時效硬化            |
| artificial aging            | 人工時效              |
| artificial atom             | 人造原子              |
| artificial codon            | 人工密碼子             |
| artificial graphite         | 人造石墨              |
| artificial heart            | 人造心臟              |
| artificial horn             | 人造角               |
| artificial kidney           | 人造腎臟              |
| artificial leather          | 人造皮革              |
| artificial lung             | 人造肺臟              |
| artificial magnet           | 人造磁石              |
| artificial meteor           | 人造流星              |
| artificial nuclear          | 人造核               |
| artificial organ            | 人工器官 ; 人造器官       |

|  |                   |
|--|-------------------|
| artificial retina chip                     | 人工視網膜晶片 ; 人造視網膜晶片 |
| artificial sunlight                        | 人造日光              |
| artificial weathering device               | 人造氣候設備            |
| arylaluminum compound                      | 芳鋁化合物             |
| arylene ether                              | 伸芳基醚              |
| as cast                                    | 鑄造狀態              |
| as cast condition                          | 鑄造狀態              |
| as ingot                                   | 鑄錠狀態              |
| as ingot condition                         | 鑄錠狀態              |
| as quenched                                | 淬火狀態              |
| as quenched condition                      | 淬火狀態              |
| as received                                | 原有狀態              |
| as received condition                      | 原有狀態              |
| as rolled                                  | 軋延狀態              |
| as rolled condition                        | 軋延狀態              |
| Asarco shaft furnace                       | 亞薩柯直井爐 { 連續銅線製程 } |
| asbestine                                  | 石綿質               |
| asbestos                                   | 石綿                |
| asbestos fiber                             | 石棉纖維              |
| asbestos fiberboard                        | 石棉纖維板             |
| asbestos filler                            | 石棉填料              |
| asbestos laminate                          | 石棉積層板             |
| asbestos pulp                              | 石棉漿               |
| asbestos-filled epoxy resin                | 填石棉環氧樹脂           |
| asbestos-phenolic resin laminate           | 石棉酚樹脂積層板          |
| asbestos-reinforced plastics               | 石棉強化塑膠            |
| asbestos-reinforced polypropylene          | 石棉強化聚丙烯           |
| asbestos-reinforced thermoplastics         | 石棉強化熱塑塑膠          |
| asbestos-reinforced thermosetting compound | 石棉強化熱固化合物         |
| asbolite                                   | 鈷土                |
| ascending kiln                             | 階級窯 ; 目字窯         |

|                      |                     |
|----------------------|---------------------|
| ash                  | 灰                   |
| Ashby-Verrall model  | 艾什比-魏瑞爾模型 { 超塑性 }   |
| aspect ratio         | 高寬比；縱橫比             |
| asperity             | 平坦表面之突點             |
| asperomagnet         | 散鐵磁鐵                |
| asphalt              | 瀝青；柏油               |
| asphalt adhesive     | 瀝青黏著劑               |
| asphalt block        | 柏油磚；瀝青磚             |
| asphalt cement       | 瀝青水泥；瀝青膠合劑          |
| asphalt coal         | 瀝青煤                 |
| asphalt cutback      | 塗料瀝青                |
| asphalt felt         | 油毛氈                 |
| asphalt flux         | 瀝青溶劑；瀝青稀釋油          |
| asphalt paper        | 瀝青紙                 |
| asphalt tile         | 瀝青瓦                 |
| asphaltene           | 瀝青質                 |
| asphaltic base       | 瀝青基                 |
| asphaltic paint      | 瀝青漆                 |
| asphaltic resin      | 瀝青樹脂                |
| asphaltization       | 瀝青化                 |
| asphalt-type sealer  | 瀝青型密封劑              |
| asphaltum            | 瀝青；柏油 { 同 asphalt } |
| assaying             | 試金                  |
| assembled material   | 組裝材料                |
| assembler            | 組裝器                 |
| assembling           | 組裝                  |
| assembly             | 裝配                  |
| assembly time        | 裝配時間                |
| association colloid  | 締合膠體                |
| association complex  | 締合複體                |
| association constant | 締合常數                |
| a-stage              | a-階段；初硬化階段          |
| a-stage epoxy        | a-階段環氧樹脂；初硬化階段環氧樹脂  |

|  |                           |
|--|---------------------------|
| a-stage resin                          | a-階段樹脂                    |
| astatine (At)                          | 砷                         |
| asterism                               | 星芒 { 模糊星狀繞射點 }            |
| ASTM grain size                        | ASTM 晶粒大小 { 美國材料與測試學會訂定 } |
| ASTM specification                     | ASTM 規範                   |
| Aston process                          | 艾士通製程 { 熟鐵製造 }            |
| asymmetric carbon atom                 | 不對稱碳原子                    |
| asymmetric catalyst                    | 不對稱觸媒                     |
| asymmetric center                      | 不對稱中心                     |
| asymmetric induction polymerization    | 不對稱誘發聚合                   |
| asymmetric polymer synthesis           | 不對稱聚合物合成                  |
| asymptotic expansion technique         | 漸近擴張技術                    |
| atactic chain                          | 雜排鏈                       |
| atactic polymer                        | 雜排聚合物                     |
| athermal transformation                | 非熱轉變；非熱變態                 |
| atherosclerosis                        | 動脈粥狀硬化[症]                 |
| atherosclerotic vascular disease (AVD) | 動脈粥狀硬化血管疾病                |
| atmosphere corrosion                   | 大氣腐蝕                      |
| atom                                   | 原子                        |
| atom size                              | 原子粒度；原子大小                 |
| atom trap                              | 原子捕捉                      |
| atomic beam lithography                | 原子束石刻術；原子束微影術             |
| atomic chain reaction                  | 原子連鎖反應                    |
| atomic cluster                         | 原子團簇                      |
| atomic coordinate                      | 原子配位                      |
| atomic disintegration                  | 原子蛻變                      |
| atomic disorder scattering             | 原子無序散射                    |
| atomic distribution function (ADF)     | 原子分佈函數                    |
| atomic energy                          | 原子能                       |
| Atomic Energy Commision (AEC)          | 原子能委員會                    |

|                               |          |                                       |                   |
|-------------------------------|----------|---------------------------------------|-------------------|
| atomic force microscope (AFM) | 原子力顯微鏡   | attenuated total reflectance method   | 減弱全反射法            |
| atomic force microscopy (AFM) | 原子力顯微術   | attenuation                           | 減弱[作用]            |
| atomic form factor            | 原子構型因素   | attraction force                      | 吸引力               |
| atomic heat                   | 原子熱      | attrition                             | 磨耗；擦耗；攪磨          |
| atomic layer deposition (ALD) | 原子層沉積法   | attrition mill                        | 攪磨機               |
| atomic layer epitaxy (ALE)    | 原子層磊晶術   | auger                                 | 螺鑽                |
| atomic level                  | 原子階      | Auger electron spectrometer           | 歐傑電子分光儀           |
| atomic magnetism              | 原子磁性     | Auger electron spectroscopy (AES)     | 歐傑電子能譜術           |
| atomic mass                   | 原子質量     | augite                                | 普通輝石              |
| atomic mass unit (amu)        | 原子質量單位   | ausaging                              | 沃斯時效              |
| atomic mobility               | 原子遷移率    | ausforming                            | 沃斯成形              |
| atomic model                  | 原子模型     | austempering                          | 沃斯回火              |
| atomic number                 | 原子序      | Austenite                             | 沃斯田鐵；沃斯田體         |
| atomic ordering               | 原子排序     | austenite grain size                  | 沃斯田鐵晶粒大小；沃斯田體晶粒大小 |
| atomic packing factor (APF)   | 原子堆積因子   | austenitic alloy steel                | 沃斯田鐵合金鋼           |
| atomic percent (at.%)         | 原子百分比數   | austenitic cast iron                  | 沃斯田鐵鑄鐵            |
| atomic pile                   | 原子堆      | austenitic chrome nickel steel        | 沃斯田鐵鎳鉻鋼           |
| atomic scale                  | 原子尺度     | austenitic manganese steel            | 沃斯田鐵錳鋼            |
| atomic scattering factor      | 原子散射因子   | austenitic stainless steel            | 沃斯田鐵不鏽鋼           |
| atomic Schrodinger equation   | 原子薛丁格方程式 | austenitic structure                  | 沃斯田鐵結構；沃斯田體結構     |
| atomic vibration              | 原子振動     | austenitising                         | 沃斯田鐵化；沃斯田體化       |
| atomic wavefunction           | 原子波函數    | austenitizing                         | 沃斯田鐵化；沃斯田體化       |
| atomic weight                 | 原子量      | austenitizing temperature             | 沃斯田鐵化溫度；沃斯田體化溫度   |
| atomic-beam holography        | 原子束全像術   | auto frettage                         | 自緊法               |
| atomization                   | 霧化[法]    | autoacceleration                      | 自動加速              |
| atomized metal powder         | 霧化金屬粉    | autocatalytic chemical reduction bath | 自催化學還原浴           |
| atomizing                     | 霧化       | autocatalytic effects                 | 自催化效應             |
| atomlloy treatment            | 超硬滲透處理   | autocatalytic process                 | 自動觸媒製程            |
| atmosphere                    | 氣氛；蒙氣    | autocatalyzed degradation             | 自催化降解             |
| atopy                         | 特異反應性    | autoclave                             | 高壓釜；蒸壓鍋           |
| attack                        | 侵蝕       |                                       |                   |

|                                  |                 |
|----------------------------------|-----------------|
| autoclave bag molding            | 高壓釜袋模製          |
| autoclave molding                | 高壓釜模製           |
| autoclave test                   | 熱壓膨脹試驗          |
| autoclaved light weight concrete | 熱壓養護輕質混凝土       |
| autocombustion system            | 自動燃燒系統          |
| autocrine                        | 自迴分泌            |
| autogenous welding               | 自動銲接；自動熔接       |
| autograft                        | 自體移植[物]         |
| autoignition                     | 自燃              |
| autolevelling                    | 自動調平            |
| autologous cell                  | 自體細胞            |
| autolysis                        | 自解[作用]          |
| automatic batching equipment     | 自動配料設備          |
| automatic compression molding    | 自動加壓模製          |
| automatic control system         | 自動控制系統          |
| automatic device                 | 自動裝置            |
| automatic gauge control          | 自動儀錶控制          |
| automatic jigger                 | 自動陶車；自動轆轤       |
| automatic mold                   | 自動模具            |
| automatic transfer molding       | 自動轉移模製          |
| automobile safety glass          | 汽車安全玻璃          |
| automotive parts                 | 汽車零件            |
| auto-orientation mechanism       | 自動定向機構          |
| autophobic liquid                | 自親液體            |
| autoradiography                  | 自動放射攝影術；自動放射顯影術 |
| autothermal reforming (ATR)      | 自發性熱重組          |
| autoxidation                     | 自氧化             |
| auxiliary anode                  | 輔助陽極            |
| auxiliary equipment              | 輔助裝備            |
| auxiliary fuel system            | 輔助燃料系統          |
| auxiliary product                | 副產品             |

|                              |            |
|------------------------------|------------|
| auxochrome                   | 助色團        |
| available chlorine           | 有效氯        |
| available lime               | 有效石灰       |
| available oxygen             | 有效氧        |
| aventurine glaze             | 金星釉        |
| average kinetic chain length | 動力學平均鏈長    |
| average molecular weight     | 平均分子量      |
| average orientation          | 平均定向       |
| avidin                       | 抗生物素蛋白     |
| Avogadro's number            | 亞佛加厥數      |
| Avrami equation              | 艾拉米方程式     |
| Avrami exponent              | 艾拉米指數      |
| axial ratio                  | 軸率         |
| axinite                      | 斧石         |
| aza fullerene                | 氮富勒烯       |
| azabenzene                   | 氮苯         |
| azelaic acid derivative      | 壬二酸衍生物     |
| azelaic acid ester           | 壬二酸酯       |
| azeotrope                    | 共沸混合液      |
| azeotropic copolymer         | 共沸共聚物      |
| azide                        | 疊氮化物       |
| azide method                 | 疊氮化物法      |
| azine                        | 氮苯         |
| azlon fiber                  | 愛茲綸纖維；蛋白纖維 |
| azo catalyst                 | 偶氮觸媒       |
| azo chromophore              | 偶氮色基       |
| azo compound                 | 偶氮化物       |
| azo compound aliphatic       | 直鏈偶氮化物     |
| azo condensation pigment     | 偶氮縮合顏料     |
| azo dye                      | 偶氮染料       |
| azo pigment                  | 偶氮顏料       |
| azo polymer                  | 偶氮聚合物      |
| azoalkane                    | 偶氮烷        |

|                      |   |
|----------------------|---|
| azobisformamide      | 偶氮雙甲醯胺  |
| azobisformic acid    | 偶氮雙甲酸   |
| azoic coupling       | 偶氮偶合  |
| azoic dye            | 偶氮染料  |
| azoisobutyronitrile  | 偶氮異丁腈   |
| azomethine copolymer | 甲亞胺共聚物  |
| azonitrile           | 偶氮腈   |
| azulmic acid         | 氮明酸   |
| azurin               | 天青蛋白  |
| azurite              | 藍銅礦 { $2\text{CuCO}_3 \cdot \text{Cu}(\text{OH})_2$ } |

## B

|                                   |                        |
|-----------------------------------|------------------------|
| B.N.F. jet test                   | B.N.F.噴射試驗 { 測量電鍍層厚度 } |
| Babbitt metal                     | 巴比合金 ; 巴氏合金            |
| back lash                         | 齒隙                     |
| back pressure                     | 背壓 ; 反壓[力]             |
| back roller                       | 背壓軋輥                   |
| back sand                         | 背砂                     |
| back spattering                   | 反電潑 { 離子蝕刻 }           |
| back stamp                        | 背款                     |
| backcoat                          | 背塗層                    |
| backcoating                       | 背塗法                    |
| backing                           | 背                      |
| backing plate                     | 底板                     |
| back-panel wiring                 | 板後接線                   |
| back-reflection focusing camera   | 背面反射聚焦相機               |
| back-reflection pinhole camera    | 背面反射針孔照相機              |
| back-reflection X-ray examination | 背面反射 X 光檢驗             |
| backspill                         | 逆溢料                    |
| backstop tong                     | 後擋鉗                    |
| backstop tongs                    | 從擋鉗                    |
| backstreaming                     | 迴流                     |
| backwall                          | 後牆                     |
| backward extrusion                | 逆向擠製                   |
| backward spinning                 | 逆向旋彎成型                 |
| backward welding                  | 從退鐸接 ; 從退熔接            |
| bacteria                          | 細菌                     |
| bacterial cell wall               | 細菌細胞壁                  |
| bacterial cellulose               | 菌造纖維素                  |
| bacterial corrosion               | 細菌腐蝕                   |
| bacterial magnetic particle       | 菌生磁性顆粒                 |
| bacterial oxidation               | 細菌氧化                   |

|                              |               |
|------------------------------|---------------|
| bactericide                  | 殺菌劑           |
| bacteriostat                 | 抑菌劑           |
| baddeleyite                  | 單斜鋯礦          |
| badging                      | 落款 ; 標記       |
| baffle                       | 擋板            |
| baffle mark                  | 擋板痕           |
| bag filter                   | 袋濾器           |
| bag molding                  | 袋模製           |
| bag wall                     | 盾牆            |
| bagasse                      | 蔗糖            |
| bagging                      | 裝袋            |
| bagging cement               | 袋裝水泥          |
| bainite                      | 變韌鐵 ; 變韌體     |
| bainite chin                 | 變韌鐵顎          |
| baked coating                | 烤塗膜           |
| baked good                   | 烘焙物           |
| baked metal finish           | 金屬烤整          |
| baked permeability           | 烘乾透氣性         |
| baked strength               | 烘乾強度          |
| bakelite                     | 電木            |
| baking                       | 烘焙            |
| baking core                  | 烘乾砂心          |
| baking furnace               | 烘焙爐           |
| balance                      | 天平 ; 秤        |
| balanced blast cupola        | 均衡鼓風熔鐵爐       |
| balanced steel               | 平衡鋼 { 一種半靜鋼 } |
| Balbach electrolytic process | 巴爾巴赫電解製程      |
| ball bearing                 | 滾珠軸承          |
| ball bearing steel           | 滾珠軸承鋼         |
| ball clay                    | 球[狀][黏]土      |
| ball mill                    | 球磨機           |
| ball mill method             | 球磨法           |
| ball milling                 | 球磨            |

|                               |                     |
|-------------------------------|---------------------|
| ballast                       | 道碴 { 道路鋪底碎石 } ; 壓艙物 |
| balling                       | 球狀化                 |
| ballistic electron transport  | 彈道式電子傳輸             |
| ballistic quantum conductance | 彈道式量子傳導             |
| balloon tire                  | 充氣輪胎                |
| balsam                        | 香膠                  |
| balsam of Peru                | 秘魯香膠                |
| bamboo leaves pattern         | 竹葉狀花紋 { 鐵水 }        |
| bamboo microstructure         | 竹狀微結構               |
| Banbury mixer                 | 班布里混合機              |
| band configuration            | 能帶組態                |
| band gap                      | 能帶間隙 ; 能隙           |
| band gap energy               | 能帶隙能量               |
| band saw                      | 帶鋸                  |
| band splitting                | 能帶分裂                |
| band steel                    | 鋼帶                  |
| band structure                | 能帶結構                |
| band theory                   | 能帶論                 |
| banded structure              | 帶狀組織                |
| bandgap renormalization       | 能隙重整[化]             |
| banding                       | 描邊 ; 邊圈             |
| bandtail state                | 能帶尾狀態               |
| bank kiln                     | 坡窯                  |
| banks                         | 斜床                  |
| bannering                     | 修邊                  |
| bar                           | 棒 ; 桿 ; 條           |
| bar drawing                   | 條桿拉製                |
| bar mill                      | 棒料軋機                |
| bar solder                    | 軟焊條                 |
| bare electrode                | 裸鎢條                 |
| bare metal                    | 裸金屬                 |
| barite                        | 重晶石                 |
| barium (Ba)                   | 鋇                   |

|                              |   |
|------------------------------|---|
| barium azodicarboxylate      | 偶氮二羧酸鋇  |
| barium ferrite               | 鋇鐵氧磁體   |
| barium methacrylate polymers | 甲基丙烯酸鋇聚合物   |
| barium ricinoleate           | 順蓖麻油酸鋇  |
| barium soap                  | 鋇皂  |
| barium titanate              | 鈦酸鋇   |
| barium-cadmium mixture       | 鋇鎘混合物   |
| barium-cadmium-zinc mixture  | 鋇鎘鋅混合物  |
| bark                         | 樹皮  |
| Barkhausen noise             | 巴克豪森雜訊  |
| barley cell                  | 燕麥細胞  |
| barn                         | 邦 { 原子核截面積單位 · 1 barn=10 <sup>-24</sup> cm <sup>2</sup> } |
| Barr-Bardgett creep test     | 巴爾-巴德格潛變試驗  |
| barrel finishing             | 打磨  |
| barrelling                   | 裝桶  |
| barrier                      | 障壁 ; 障礙 ; 阻礙  |
| barrier coating              | 障壁塗膜  |
| barrier low-k (BLOk)         | 低介電阻障層  |
| barrier property             | 障壁特性  |
| baryte                       | 重晶石   |
| basal lamina                 | 基底層   |
| basal plane                  | 基面  |
| basalt ware                  | 玄武陶   |
| base bullion                 | 含銀粗鉛  |
| base coat                    | 底塗層   |
| base coating                 | 底塗法   |
| base exchange                | 鹼交換   |
| base exchange capacity       | 鹽基交換容量  |
| base metal                   | 卑金屬 ; 母材  |
| base metal catalyst          | 鹼金屬觸媒   |
| base metal thermocouple      | 卑金屬熱電偶  |
| base permeability            | 原砂透氣性   |



|                            |                  |
|----------------------------|------------------|
| base-centered monoclinic   | 底心單斜             |
| base-centered orthorhombic | 底心斜方             |
| basement membrane          | 基底[透]膜           |
| basic Bessemer converter   | 鹼性柏思麥轉爐          |
| basic Bessemer process     | 鹼性柏思麥法           |
| basic Bessemer steel       | 鹼性柏思麥鋼           |
| basic brick                | 鹼性磚              |
| basic catalysis            | 鹼性催化反應           |
| basic colorant             | 鹼性色料             |
| basic dye                  | 鹼性染料             |
| basic electric arc furnace | 鹼性電弧爐            |
| basic electric furnace     | 鹼性電爐             |
| basic lead carbonate       | 鹼式碳酸鉛            |
| basic lining               | 鹼性襯裡； 鹼性爐襯       |
| basic material             | 鹼性材料             |
| basic open hearth furnace  | 鹼性平爐             |
| basic oxygen converter     | 鹼性氧氣轉爐           |
| basic oxygen process       | 鹼性氧氣煉鋼法          |
| basic pig iron             | 鹼性生鐵             |
| basic refractory           | 鹼性耐火材            |
| basic slag                 | 鹼性渣              |
| basic steel                | 鹼性鋼              |
| basic water content        | 基本含水量            |
| basicity                   | 鹼度               |
| basic-oxygen furnace       | 鹼性吹氧爐            |
| basidiomycete              | 擔子菌              |
| basin                      | 槽；池；盆            |
| basis metal                | 心材 { 包層產品之中心金屬 } |
| basket ware                | 藍紋陶墊餅；半截磚        |
| bast fiber                 | 韌皮纖維             |
| batch                      | 批；批料             |
| batch meter                | 批量計              |

|                               |                                   |
|-------------------------------|-----------------------------------|
| batch polymerization          | 批次聚合                              |
| batch reactor                 | 批次反應器                             |
| batch weight                  | 批重                                |
| batch 【type】 mixer            | 批式攪拌機                             |
| batch 【type】annealing furnace | 批式退火爐                             |
| batch 【type】furnace           | 批式爐                               |
| batching equipment            | 配料設備                              |
| batching plant                | 配料工廠                              |
| batch-type mixer              | 分批混合機                             |
| bath                          | 浴                                 |
| bath metal                    | 脆銅 { 廉價裝飾用具，其成份為 55%Cu · 其餘為 Zn } |
| bath stabilizer               | 鍍浴安定劑                             |
| bathochromic shift            | 紅位移                               |
| battering tool                | 鎚擊工具                              |
| battery case                  | 電瓶箱                               |
| battery hybrid system         | 電池混合系統                            |
| battery recharger             | 電池充電器                             |
| battery separator             | 電瓶隔板                              |
| batting out machine           | 平坯機                               |
| Baumé hydrometer              | 波美比重計                             |
| Baume's scale                 | 波美度 { 比重單位 }                      |
| Bauschinger effect            | 鮑辛格效應                             |
| bauxite                       | 水礬土；鋁礬土                           |
| bauxite brick                 | 礬土磚                               |
| bauxite cement                | 鋁礬土水泥                             |
| Bayer process                 | 拜耳法                               |
| beach mark                    | 海灘紋 { 疲勞標記用 }                     |
| bead                          | 珠粒；熔珠；鐳珠；珠                        |
| bead polymerization           | 珠粒聚合                              |
| bead weld                     | 聯珠熔接                              |
| beaded roll                   | 起脊輥子                              |
| beading                       | 起脊                                |
| beading enamel                | 邊緣釉                               |

|                               |                        |
|-------------------------------|------------------------|
| beam                          | 樑                      |
| beam -dyer                    | 經軸染色機                  |
| beam-dyeing                   | 經軸染色                   |
| bearing                       | 軸承                     |
| bearing bronze                | 軸承青銅；軸承用青銅             |
| bearing corrosion             | 軸承腐蝕                   |
| bearing metal                 | 軸承金屬                   |
| beater                        | 打漿機                    |
| beating                       | 攪打                     |
| bed                           | 床面                     |
| bed coke                      | 底焦                     |
| bed density                   | 層床密度                   |
| bedding                       | 墊底                     |
| beehive coke                  | 蜂巢爐焦炭                  |
| beehive oven                  | 蜂房煉焦爐                  |
| beet sugar                    | 甜菜糖                    |
| beewax                        | 蜂蠟；黃蠟                  |
| behenic acid                  | 廿二酸                    |
| behenic acid ester            | 廿二酸酯                   |
| beidellite                    | 貝德石                    |
| Beilby layer                  | 拜耳比層 { 拋光金屬表面形成之非結晶層 } |
| belite                        | 矽酸二鈣                   |
| bell and hopper               | 鐘斗形蓋 { 鼓風爐 }           |
| bell bronze                   | 鐘青銅；響銅                 |
| bell damper                   | 鐘形風門                   |
| bell metal                    | 鐘用金屬                   |
| bell-and-spigot configuration | 承插式結構                  |
| bell-type furnace             | 鐘罩式爐                   |
| belly                         | 爐腹                     |
| belt conveyor                 | 帶式運送機                  |
| belt drop hammer              | 皮帶落槌                   |
| belt grinding                 | [連續]帶研磨                |
| belt hammer                   | 皮帶槌                    |

|                         |                              |
|-------------------------|------------------------------|
| belt kiln               | 帶式窯                          |
| bench mold              | 檯製砂模                         |
| bench molder            | 檯製砂模工                        |
| bench press             | 台型壓機                         |
| bend loss               | 彎曲損耗                         |
| bend strength           | 彎曲強度                         |
| bend test               | 彎曲試驗                         |
| bendability             | 彎曲性                          |
| bender                  | 彎曲機；彎曲模                      |
| bending                 | 彎曲                           |
| bending fatigue limit   | 彎曲疲勞極限                       |
| bending roll            | 捲板機                          |
| bending strain          | 彎曲應變                         |
| bending-form test       | 彎形試驗                         |
| benefaction             | 初選 { 礦 }                     |
| beneficiation           | 精選；提選                        |
| Bengough-Stuart process | 班哥-司徒爾製程 { 輕金屬在 3%鉻酸中之陽極處理 } |
| Benjamin gum            | 班亞門膠                         |
| bentonite               | 膨[潤]土；皂土                     |
| benzene                 | 苯                            |
| berkelium (Bk)          | 鉍                            |
| Berlin porcelain        | 柏林瓷器                         |
| Bernal hole study       | 貝納爾洞研究                       |
| Bernoulli statistics    | 柏努力統計                        |
| Berrelus process        | 柏里法                          |
| beryl                   | 綠寶石                          |
| beryllia                | 鈹氧；氧化鈹；鈹土                    |
| berylliosis             | 鈹毒效應                         |
| beryllium (Be)          | 鈹                            |
| beryllium bronze        | 鈹青銅                          |
| beryllium carbide fiber | 碳化鈹纖維                        |
| beryllium fiber         | 鈹纖維                          |
| beryllium-copper alloy  | 鈹銅合金                         |

|                                 |                      |
|---------------------------------|----------------------|
| Bessemer cast steel             | 柏思麥鑄鋼                |
| Bessemer converter              | 柏思麥轉爐                |
| Bessemer iron                   | 柏思麥[生]鐵              |
| Bessemer ore                    | 柏思麥鐵礦                |
| Bessemer pig iron               | 柏思麥生鐵                |
| Bessemer process                | 柏思麥法                 |
| Bessemer steel                  | 柏思麥鋼                 |
| beta brass                      | 貝他黃銅; $\beta$ 黃銅     |
| beta graphite                   | 貝他石墨; $\beta$ 石墨     |
| beta iron                       | 貝他鐵; $\beta$ 鐵       |
| beta particle                   | 貝他粒子; $\beta$ 粒子     |
| beta ray                        | 貝他射線; $\beta$ -射線    |
| beta structure                  | 貝他結構; $\beta$ 結構     |
| beta treatment                  | 貝他處理; $\beta$ 處理     |
| beta-relaxation temperature     | 貝他鬆弛溫度; $\beta$ 鬆弛溫度 |
| Bethe-Slater curve              | 貝特-斯雷特曲線             |
| Betts electrolytic lead process | 柏茲電解鉛製程              |
| Betz coefficient                | 貝茲係數                 |
| bevel brick                     | 斜磚                   |
| B-H curve                       | B-H 曲線 { 同磁滯曲線 }     |
| bias                            | 偏壓; 偏位               |
| biaxial flexure                 | 雙軸扭曲                 |
| biaxial orientation             | 雙軸定向                 |
| biaxial rotation                | 雙軸旋轉                 |
| biaxial stress                  | 雙軸應力                 |
| biaxiality                      | 雙軸應力比                |
| bichromate process              | 二鉻酸法                 |
| bicomponent fiber               | 雙元纖維; 二元纖維           |
| bicomponent polyamide fiber     | 雙元聚醯胺纖維; 二元聚醯胺纖維     |
| biconstituent fiber             | 雙組成纖維; 二組成纖維         |
| bicyclo heptene                 | 雙環庚烯                 |
| bi-exchange polymerization      | 雙交換聚合                |

|                                       |                  |
|---------------------------------------|------------------|
| biexciton                             | 雙激子              |
| bifunctional monomer                  | 雙官能單體            |
| bi-functionalized molecule            | 雙官能化分子           |
| bifurcation                           | 分岔; 分歧           |
| bilayer lipid membrane                | 雙層脂透膜            |
| bilayer membrane (BLM)                | 雙層透膜             |
| bilayer period                        | 雙層週期             |
| billet                                | 小[鋼]胚            |
| billet mill                           | 小[鋼]胚軋機          |
| bimetallic cluster                    | 雙金屬團簇            |
| bimetallic corrosion                  | 雙金屬腐蝕            |
| bimetallic strip                      | 雙金屬帶             |
| bimetallics                           | 雙金屬              |
| bimolecular nucleophilic substitution | 雙分子親核取代反應        |
| bimorph actuator                      | 雙形致動器            |
| binary alloy                          | 二元合金             |
| binary composite                      | 二元複合材料           |
| binary eutectic alloy system          | 二元共晶合金系          |
| binary isomorphous alloy system       | 二元同質異晶合金系        |
| binary mixture                        | 二元混合物            |
| binary monotectic alloy system        | 二元偏晶合金系          |
| binary peritectic alloy system        | 二元包晶合金系          |
| binary phase diagram                  | 二元相平衡圖; 二元相圖     |
| binary system                         | 二元系              |
| binder                                | 黏結劑; 黏合劑         |
| bin-dicator                           | 料面指示器            |
| binding agent                         | 黏合劑              |
| binding constant                      | 黏合常數             |
| binding lifetime                      | 結合生命期 { 酵素作用期間 } |
| binding material                      | 結合劑; 黏結劑         |
| binding topology                      | 鍵結拓撲學            |

|  |                  |
|--|------------------|
| bio micro electro mechanical system (MEMS) | 生物微機電系統          |
| bio template                               | 生物模版             |
| bioactive glass                            | 生物活性玻璃           |
| bioactive glass-ceramic                    | 生物活性玻璃陶瓷         |
| bioactive molecule                         | 生物活性分子           |
| bioactivity                                | 生物活性             |
| bioanalogue molecule                       | 生物類似分子           |
| bioassay procedure                         | 生物檢定步驟           |
| biocatalyst                                | 生物催化劑；生物觸媒       |
| bioceramics                                | 生物陶瓷；生醫陶瓷        |
| biochemical fuel cell                      | 生化燃料電池           |
| biochemical product                        | 生化產品             |
| biochip                                    | 生物晶片             |
| biocide                                    | 生物滅除劑            |
| biocompatibility                           | 生物相容性；生物適應性      |
| bio-compatible material                    | 生物相容材料           |
| biocomposite                               | 生物複合材料           |
| bio-computer                               | 生物電腦             |
| biocopolymer                               | 生物共聚物            |
| biodegradation                             | 生物降解             |
| bio-detection                              | 生物檢測             |
| bioelectrode                               | 生物電極             |
| bioelectronics                             | 生物電子學            |
| bioequivalency test                        | 生物等當量試驗          |
| bioerodible material                       | 生物可侵蝕材料          |
| bioerosion                                 | 生物侵蝕             |
| biofiber                                   | 生物纖維             |
| biofilm                                    | 生物膜              |
| biofilm resistant coating                  | 抗生物膜披覆層 { 細胞貼附 } |
| biofuel                                    | 生物燃料             |
| biogas                                     | 生物氣體             |
| biogenesis                                 | 生命起源論；生命循環論      |

|                           |             |
|---------------------------|-------------|
| biogenic nanoarchitecture | 生物遺傳奈米建構    |
| bioinert ceramics         | 生物惰性陶瓷      |
| bioinspired material      | 生物啟發性材料     |
| biolabeling               | 生物標示        |
| biological application    | 生物應用        |
| biological corrosion      | 生物腐蝕        |
| biological degradation    | 生物降解        |
| biological fuel cell      | 生物燃料電池      |
| biological oxygen demand  | 生物需氧量       |
| biological polymer        | 生物聚合物       |
| biological property       | 生物性質        |
| biological system         | 生物系統        |
| biomass energy            | 生質能         |
| biomass hydrogen/methanol | 生質氫/甲醇      |
| biomaterials              | 生物材料        |
| biomechanics              | 生物力學        |
| biomembrane               | 生物透膜        |
| biometric nanocomposite   | 生物奈米複合材料    |
| biomimetics               | 仿生學         |
| biomineralization         | 生物礦化        |
| biomolecular device       | 生物分子元件      |
| biomolecular electronics  | 生物分子電子學     |
| biomolecular machine      | 生物分子機器      |
| biomolecular motor        | 生物分子馬達      |
| bionanotechnology         | 生物奈米技術      |
| biopolymer                | 生物高分子；生物聚合體 |
| biopolymerization         | 生物聚合        |
| biosensor                 | 生物感測器       |
| biostability              | 生物穩定性       |
| biosynthesis              | 生物合成        |
| biosynthetic machinery    | 生物合成機械      |
| biotextile                | 生物織物        |

|                            |                            |
|----------------------------|----------------------------|
| biotin                     | 生物素                        |
| biotite                    | 黑雲母                        |
| bipolar alkaline fuel cell | 雙極鹼性燃料電池                   |
| bipolar cell               | 雙極細胞                       |
| bipolar lead acid system   | 雙極鉛酸系統                     |
| bipolar membrane           | 雙極性透膜                      |
| bipolar plate              | 雙極板                        |
| biquadratic coupling       | 雙二階耦合                      |
| biquartz                   | 雙石英片                       |
| birefringence              | 雙折射                        |
| Birmabright                | 柏瑪勃萊合金 { 含 1-7%Mg 之鋁合金系列 } |
| bisabol myrrh              | 沒藥樹脂                       |
| biscuit                    | 素燒坯                        |
| biscuit firing             | 素燒                         |
| biscuit method             | 素燒法                        |
| biscuit ware               | 無釉器 ; 素燒器                  |
| Bismanol                   | 鈹錳鐵合金 { 一種磁性材料 }           |
| bismuth (Bi)               | 鈹                          |
| bismuth lustre             | 鈹光料                        |
| bismuth telluride          | 碲化鈹 { 一種熱電材料 }             |
| bisphenol                  | 雙酚                         |
| bisphenol A                | 雙酚 A                       |
| bisque                     | 素燒坯                        |
| bisque fire                | 素燒                         |
| bisthiophenol              | 雙硫酚                        |
| bisulfite                  | 亞硫酸氫鹽 ; 酸式亞硫酸鹽             |
| bitstone                   | 碎矽石                        |
| Bitter pattern             | 畢德氏磁區圖                     |
| bituminous cement          | 瀝青膠泥                       |
| bituminous coal            | 煙煤                         |
| bituminous coating         | 瀝青塗面                       |
| bituminous material        | 煙煤材料                       |

|                                 |                                |
|---------------------------------|--------------------------------|
| biuret                          | 縮二脲                            |
| biuret crosslink                | 縮二脲交聯                          |
| black ash                       | 黑灰                             |
| black body                      | 黑體                             |
| black body radiation            | 黑體輻射                           |
| black edging                    | 黑邊                             |
| black heart malleable cast iron | 黑心可鍛鑄鐵 ; 黑心展性鑄鐵                |
| black iron plate                | 黑鐵板                            |
| black lead                      | 石墨 ; 黑鉛                        |
| black lignite                   | 黑褐煤                            |
| black oxide finish              | 黑色氧化處理                         |
| black sand                      | 舊砂 { 鑄造用 } ; 黑砂 { 含有砂金、砂白金的砂 } |
| black sheet iron                | 黑鐵皮                            |
| black skin                      | 黑皮 ; 毛坯面                       |
| black speck                     | 黑斑                             |
| black wash                      | 砂模黑漿                           |
| blackening                      | 碳質材料 { 如石墨等 } ; 黑色塗料           |
| blackening holes                | 黑洞 { 鑄疵 }                      |
| bladder                         | 膀胱                             |
| blaes                           | 布拉土岩                           |
| blank                           | 毛坯 ; 坯料 { 鑄造用 }                |
| blank carburizing               | 空白滲碳                           |
| blank fixe                      | 重晶石粉                           |
| blank holder                    | 壓料板 ; 坯料夾                      |
| blank nitriding                 | 空白氮化                           |
| blanket feed                    | 氈式加料                           |
| blankholder slide               | 壓料滑塊                           |
| blanking                        | 切坯                             |
| blast                           | 鼓風                             |
| blast cleaning                  | 噴砂處理                           |
| blast furnace                   | 鼓風爐 ; 高爐                       |
| blast furnace coke              | 鼓風爐焦碳 ; 高爐焦碳                   |

|                           |                |
|---------------------------|----------------|
| blast furnace refractory  | 高爐用耐火材；鼓風爐用耐火材 |
| blast furnace slag        | 鼓風爐渣           |
| blast furnace slag        | 爐渣水泥           |
| blast furnace slag cement | 鼓風爐渣水泥；高爐渣水泥   |
| blast main                | 主送風管           |
| blast pipe                | 送風管            |
| blast pressure            | 鼓風壓力           |
| blast regulator           | 風量調節器          |
| blast roasting            | 鼓風焙燒           |
| blast volume meter        | 風量計            |
| blasting                  | 噴擊淨面法          |
| blasting gelatin          | 炸膠             |
| Blaw-Knox process         | 布勞-諾克斯法        |
| bleach spectrum           | 褪色光譜           |
| bleached kraft pulp       | 漂白牛皮紙漿         |
| bleached lac              | 漂白蟲膠           |
| bleached sulfate pulp     | 漂白硫酸鹽紙漿        |
| bleached sulfite pulp     | 漂白亞硫酸鹽紙漿       |
| bleaching                 | 漂白             |
| bleaching clay            | 漂白黏土           |
| bleb                      | 氣泡             |
| bleeding                  | 滲出；釋水；色料擴散     |
| blemish                   | 瑕疵；污點          |
| blend                     | 摻合物            |
| blend glue                | 摻合膠            |
| blended sand              | 調合砂            |
| blending                  | 摻合；拌合          |
| blind core                | 暗砂心            |
| blind feeder              | 暗補給口           |
| blind hole                | 盲孔             |
| blind riser               | 暗冒口            |
| blinding                  | 堵塞             |
| blister                   | 氣泡；起泡          |

|                                |                |
|--------------------------------|----------------|
| blister copper                 | 泡銅 { 粗銅 }      |
| blister package                | 氣泡包裝物          |
| blister packing                | 氣泡包裝           |
| blister steel                  | 泡面鋼            |
| blistering                     | 起泡             |
| bloach                         | 殘跡；殘痕          |
| bloating                       | 脹大             |
| Bloch bands semiconductor      | 布洛赫能帶半導體       |
| Bloch decay pulse sequence     | 布洛赫衰變脈衝序列      |
| Bloch line                     | 布洛赫線           |
| Bloch T3/2 law                 | 布洛赫的 T3 / 2 定律 |
| Bloch temperature dependence   | 布洛赫溫度依存性       |
| Bloch theorem                  | 布洛赫定理          |
| Bloch wall                     | 布洛赫壁           |
| block                          | 磚[塊]           |
| block and graft copolymer      | 區段-接枝共聚體       |
| block chlorination             | 區段氯化           |
| block copolyamide              | 區段共聚醯胺         |
| block copolycarbonate          | 區段共聚碳酸酯        |
| block copolyester              | 區段共聚酯          |
| block copolymer                | 區段共聚物          |
| block copolymer material       | 嵌段共聚物材料        |
| block copolymerization         | 區段共聚合          |
| block handle                   | 實心柄            |
| block rake                     | 刮痕             |
| block rubber                   | 橡膠塊            |
| block-chlorinated polyethylene | 區段氯化聚乙烯        |
| blocker                        | 成坯型 { 鍛模 }     |
| blocker-type forging           | 坯鍛             |
| blocking                       | 封端；鍛坯；除泡[作用]   |
| blocking impression            | 成坯型            |

|                           |                             |
|---------------------------|-----------------------------|
| blocking temperature      | 阻隔溫度                        |
| blood                     | 鋼面紅鏽                        |
| blood anticoagulant       | 血液抗凝劑                       |
| blood coagulant           | 血液凝結劑                       |
| blood coagulation         | 凝血                          |
| blood glue                | 血膠                          |
| blood plasma              | 血漿                          |
| blood pump                | 血液泵                         |
| blood-brain-barrier (BBB) | 血腦屏障                        |
| blood-plasma extender     | 血漿稀釋劑                       |
| bloom                     | [金屬]中塊料；硝霜                  |
| bloomer                   | 塊料爐                         |
| blooming mill             | 大[鋼]胚軋機                     |
| blotter press             | 壓濾機                         |
| blow and blow process     | 重吹[法]                       |
| blow hole                 | 氣孔                          |
| blow mold                 | 吹模                          |
| blow molding              | 吹氣模製                        |
| blow mould                | 吹模；吹製模具                     |
| blow opening              | 吹孔                          |
| blow ratio                | 吹比                          |
| blower                    | 吹製工；鼓風機                     |
| blowing                   | 吹氣；噴出熔體 { 鋼錠頂面結殼後噴出之熔體 }；送風 |
| blowing agent             | 發泡劑                         |
| blowing iron              | 吹管                          |
| blow-molded container     | 吹模成型容器                      |
| blow-molding machine      | 吹氣模製機                       |
| blown asphalt             | 吹製瀝青                        |
| blown casting             | 含氣泡鑄件                       |
| blown film                | 吹製膜                         |
| blown metal               | 吹淨金屬 { 轉爐中雜質已氧化除去之金屬 }      |
| blown-spun fiber          | 吹紡纖維                        |

|                              |                        |
|------------------------------|------------------------|
| blow-up ratio                | 吹開比                    |
| blue annealing               | 顯藍退火 { 溫度較 blueing 高 } |
| blue brick                   | 青磚                     |
| blue brittleness             | 青脆性；藍脆性                |
| blue heating                 | 發藍加熱                   |
| blue persan                  | 波斯藍底白花彩                |
| blue shift                   | 藍移；藍位移                 |
| blue shortness               | 青脆性；藍脆性                |
| blueing                      | 青化法                    |
| blunger                      | 拌和器                    |
| blurring-highlight test      | 耐擊試驗 { 釉 }             |
| blush                        | 褪光                     |
| blushing                     | 抹紅                     |
| board drop hammer            | 板落槌                    |
| board hammer                 | 板槌                     |
| boart                        | 黑鑽石 { 工業用 }；次等鑽石       |
| body                         | 坯[胎]                   |
| body mass index (BMI)        | 身體質量指數                 |
| body-centered cubic (b.c.c.) | 體心立方                   |
| body-centered cubic lattice  | 體心立方格子                 |
| body-centered orthorhombic   | 體心斜方                   |
| body-centered tetragonal     | 體心正方                   |
| body-core                    | 主體砂心                   |
| bodying                      | 稠化                     |
| boehmite                     | 水鋁石                    |
| bogie hearth furnace         | 通心式爐；台車式爐              |
| Bohr atom                    | 波耳原子                   |
| Bohr effect                  | 波耳效應                   |
| Bohr exciton                 | 波耳激子                   |
| Bohr magneton                | 波耳磁子                   |
| Bohr radius                  | 波耳半徑                   |
| boil                         | 氣泡                     |

|                                   |             |
|-----------------------------------|-------------|
| boiler                            | 鍋爐          |
| boiler corrosion                  | 鍋爐腐蝕        |
| boiler embrittlement              | 鍋爐脆化        |
| boiler plate                      | 鍋爐鋼板        |
| boiler scale                      | 鍋垢          |
| boiler water                      | 鍋爐用水        |
| boiling                           | 沸騰；冒泡       |
| boiling-point elevation           | 沸點升高        |
| bolaamphiphile                    | 雙端兩親分子      |
| bolster                           | 承板          |
| Boltzmann constant                | 波茲曼常數       |
| Boltzmann distribution law        | 波茲曼分佈定律     |
| Boltzmann formula                 | 波茲曼公式       |
| Boltzmann superposition principle | 波茲曼重疊原理     |
| Boltzmann theory                  | 波茲曼理論       |
| Boltzmann's law                   | 波茲曼定律       |
| bolus injection                   | 大劑量注射       |
| bomb reduction process            | 高壓罐還原法      |
| bond                              | 鍵；結合；黏合；疊砌法 |
| bond energy                       | 鍵結能         |
| bond glue                         | 黏合膠         |
| bond rupture                      | 鍵結破壞        |
| bond strength                     | 黏合強度；鍵結強度   |
| bond strength                     | 鍵結強度        |
| bonded abrasive                   | 黏合磨擦物       |
| bonded fiber                      | 黏合纖維        |
| bonded joint                      | 黏合接頭        |
| bonded nonwoven substrate         | 黏合不織品底層     |
| bonder                            | 接頭磚         |
| bonderizing                       | 磷酸鹽[防鏽]處理   |
| bonding                           | 黏合；鍵結       |
| bonding                           | 鍵結          |

|                                |                               |
|--------------------------------|-------------------------------|
| bonding agent                  | 黏合劑                           |
| bonding force                  | 鍵結力                           |
| bonding interaction            | 黏合交互作用                        |
| Bondur alloy                   | 邦杜合金 { 鍛造用合金之一，類似於含 4%銅之杜拉鋁 } |
| bone                           | 骨                             |
| bone ash                       | 骨粉                            |
| bone china                     | 骨灰瓷                           |
| bone grade                     | 骨級                            |
| bone marrow stromal cell       | 骨髓基質細胞                        |
| bone mass density              | 骨質密度                          |
| bone-dry body                  | 乾透坯                           |
| book mould                     | 書型模                           |
| boost melting                  | 輔熔法                           |
| boot                           | 醮料筒                           |
| boot leg                       | [礦]孔片；[冶]初縮                   |
| boral                          | 波拉爾 { 原子爐內碳化硼熱中子吸收材料 }        |
| borate flint                   | 含硼火玻璃                         |
| borax                          | 硼砂                            |
| borazon                        | 氮化硼；玻拉韌 { 硬度與金鋼石相同之結晶體 }      |
| bordeau red                    | 棗紅                            |
| boric acid                     | 硼酸                            |
| boric oxide                    | 氧化硼                           |
| borides                        | 硼化物                           |
| boriding                       | 滲硼處理                          |
| boring                         | 搪屑                            |
| Born approximation             | 玻恩近似法                         |
| Born-Oppenheimer approximation | 玻恩-奧本海默近似法                    |
| borohydride                    | 硼氫化物                          |
| borohydride fuel               | 硼氫燃料                          |
| boron (B)                      | 硼                             |
| boron carbide                  | 碳化硼 { B <sub>4</sub> C }      |



|                                   |                            |
|-----------------------------------|----------------------------|
| boron carbide whisker             | 碳化硼晶鬚                      |
| boron compound                    | 硼化合物                       |
| boron fiber                       | 硼纖維                        |
| boron fluoride system             | 氟化硼系                       |
| boron nitride                     | 氮化硼 { BN }                 |
| boron nitride fiber               | 氮化硼纖維                      |
| boron polymer                     | 硼聚合物                       |
| boron steel                       | 硼鋼                         |
| boron whisker                     | 硼晶鬚                        |
| boron-containing polymer          | 含硼聚合物                      |
| boronising                        | 滲硼法                        |
| boron-nitrogen polymer            | 硼氮聚合物                      |
| boron-tungsten composite filament | 硼鎢複合絲                      |
| borosilicate glass                | 硼矽玻璃                       |
| borosiliconizing                  | 滲硼矽處理                      |
| borosiloxane                      | 硼矽氧烷                       |
| bort                              | 黑鑽石 { 工業用 } ; 次等鑽石 ; 圓粒金剛石 |
| Bose-Einstein condensation        | 玻色-愛因斯坦凝聚                  |
| bosh                              | 爐腹 { 鼓風爐 }                 |
| boson                             | 玻色子                        |
| botting                           | 堵塞                         |
| botting clay                      | 封塞土                        |
| bottle brick                      | 瓶形磚                        |
| bottle kiln                       | 瓶形窯                        |
| bottle oven                       | 瓶形爐                        |
| bottom pouring                    | 底澆 ; 底鑄法                   |
| bottom pouring ladle              | 底澆盛桶                       |
| bottom-fired reformer furnace     | 底燒重組爐                      |
| bottoming cycle                   | 底循環                        |
| bottom-up approach                | 自下而上法 ; 由小而大法              |
| bottom-up nanotechnology          | 自下而上奈米科技 ; 由小而大奈米科技        |

|                            |                   |
|----------------------------|-------------------|
| bottom-up science          | 由下而上之科學 { 奈米科技用 } |
| Boudouard reaction         | 布多阿爾反應            |
| boulder clay               | 漂礫土               |
| bouncing putty             | 跳彈油灰              |
| bound moisture             | 結合水分              |
| boundary conductivity      | 界面傳導度             |
| boundary displacement      | 界壁位移              |
| boundary energy            | 晶界能 { 晶粒間 }       |
| boundary layer             | 界面層 ; 晶界層         |
| boundary layer             | 界面層               |
| boundary scattering        | 晶界散射              |
| boundary selectivity       | 界面選擇性             |
| boundary tension           | 界面張力              |
| bovine serum albumin       | 牛血清白蛋白            |
| box annealing              | 箱式退火              |
| box carburizing            | 箱式滲碳法             |
| box feeder                 | 箱型加料機             |
| box furnace                | 箱式爐               |
| box kiln                   | 箱型窯               |
| boxboard                   | 盒紙板               |
| Boyle temperature          | 波以耳溫度             |
| Brabender torque rheometer | 希拉本德力矩流變儀         |
| bracken glass              | 蕨灰玻璃              |
| brackish water             | 淡鹽水 { 鹽分介於河海水之間 } |
| Bragg equation             | 布拉格方程式            |
| Bragg mirror               | 布拉格鏡              |
| Bragg reflection           | 布勒格反射             |
| Bragg's law                | 布拉格定律             |
| braid                      | 編織物               |
| brake lining               | 剎襯 ; 煞車襯          |
| braking-radiation          | 制動輻射              |
| brale indenter             | [鑽石]壓痕器           |
| branched macromolecule     | 支鏈巨分子             |

|                                 |             |
|---------------------------------|-------------|
| branched polymer                | 支鏈聚合物       |
| branching                       | 分枝          |
| branching enzyme                | 分枝酶         |
| branching index                 | 分枝指數        |
| brass                           | 黃銅          |
| braunite                        | 錳矽酸鹽        |
| Bravais lattice                 | 布拉菲格子       |
| Brayton cycle                   | 布雷頓循環       |
| Brayton/Rankine bottoming cycle | 布雷頓/朗肯底循環   |
| brazing                         | 硬鐸          |
| brazing alloy                   | 硬鐸合金；硬鐸填料   |
| brazing solder                  | 硬鐸料         |
| breakaway corrosion             | 剝離腐蝕        |
| breakdown                       | 崩解；崩潰；破壞    |
| breakdown strength              | 破壞強度        |
| breakdown voltage               | 破壞電壓        |
| breaker plate                   | 斷路器板        |
| breaker strip                   | 防斷條         |
| breaking length                 | 斷裂長度        |
| breaking load                   | 斷裂負荷        |
| breaking point                  | 斷裂點         |
| breaking quenching              | 中斷淬火        |
| breaking strain                 | 斷裂應變        |
| breaking strength               | 斷裂強度        |
| breaking stress                 | 斷裂應力        |
| breakthrough time               | 失效時間        |
| breast                          | 爐胸          |
| breast wall                     | 胸牆          |
| breathe and dwell cycle         | 呼停週期        |
| breeder reactor                 | 滋生反應器；增殖反應器 |
| breeding                        | 滋生；增殖       |
| breeze                          | 焦炭粉；炭渣      |

|  |   |
|--|---|
| breeze coke                            | 成型焦炭；碎焦炭  |
| bremsstrahlung                         | 制動輻射  |
| bremsstrahlung isochromat spectroscopy | 制動輻射等色光譜術   |
| breunnerite                            | 鐵菱鎂礦  |
| brick                                  | 磚   |
| brick clay                             | 磚土  |
| brick earth                            | 磚土  |
| brick lining                           | 磚襯  |
| bridge wall                            | 隔牆  |
| bridging                               | 頂面結殼 { 坩堝內爐料上部固結現象 } ；橋接 { 直爐風口上部爐料固結現象 } ；拱陷 { 粉末壓胚中拱形缺陷 } ； |
| bridging ligand                        | 橋聯配體  |
| bridging mechanism                     | 搭橋機構  |
| bridging oxygen                        | 架橋氧   |
| Bridgman [crystal growing] technique   | 布里吉曼[晶體生長]技術  |
| bright annealing                       | 輝面退火  |
| bright axis                            | 亮軸  |
| bright coal                            | 輝煤  |
| bright dip                             | 輝面浸漬  |
| bright exciton                         | 亮激子   |
| bright field                           | 明視野   |
| bright gold                            | 金液  |
| bright hardening                       | 輝面硬化；輝面淬火   |
| bright heat treatment                  | 輝面熱處理   |
| brightener                             | 上光劑   |
| brightener                             | 增亮劑；光澤劑   |
| bright-field image                     | 明視野像  |
| brightness                             | 亮度  |
| Brightray alloys                       | 布萊崔合金 { 高鉻之鎳合金 }  |
| Brillouin scattering                   | 布里洛因散射  |
| Brillouin zone                         | 布利洛區  |

|                               |                                 |
|-------------------------------|---------------------------------|
| brine leaching                | 鹽水浸濾；鹽水浸洗                       |
| Brinell hardness              | 勃氏硬度                            |
| Brinell hardness test         | 勃氏硬度試驗                          |
| briquet                       | 煤磚 { 由煤層做成的硬<br>固燃料 }；方塊；試<br>錠 |
| briquette                     | 煤磚 { 由煤層做成的硬<br>固燃料 }；方塊；試<br>錠 |
| bristol glaze                 | 布里斯脫釉                           |
| Britannia metal               | 不列顛金屬 { 一種錫銻<br>銅合金 }           |
| brittle boundary<br>technique | 晶界脆化術                           |
| brittle fracture              | 脆性斷裂                            |
| brittle material              | 脆性材料                            |
| brittle point                 | 脆化點                             |
| brittle rupture               | 脆性破壞                            |
| brittle strength              | 脆化強度                            |
| brittle temperature           | 脆化溫度                            |
| brittleness                   | 脆性                              |
| brittle-ring test             | 脆環試驗                            |
| broaching                     | 拉削                              |
| broaching hole                | 拉削孔                             |
| broad line                    | 寬線                              |
| broad-band spectrum           | 寬帶光譜                            |
| broeggerite                   | 鈦鈷礦                             |
| bromelin                      | 鳳梨蛋白酶                           |
| brominated butyl rubber       | 溴化丁基橡膠                          |
| brominated pyranthrone        | 溴化皮蔥酮染料                         |
| bromine (Br)                  | 溴                               |
| bromo-gelatine                | 溴明膠                             |
| bromophenol                   | 溴化酚                             |
| Bronsted acid                 | 布氏酸                             |
| bronze                        | 青銅                              |
| bronze powder                 | 青銅粉                             |
| bronze welding                | 青銅鐸                             |

|  |                                |
|--|--------------------------------|
| brookite   | 板鈦礦                            |
| Brown and Sharp wire<br>gauge                        | 布朗-沙普線號規                       |
| brown coal   | 褐煤                             |
| brown vulcanized oil                                 | 褐硫化油                           |
| Brownian assembly                                    | 布朗組裝                           |
| Brownian diffusion                                   | 布朗擴散                           |
| Brownian dynamics                                    | 布朗動力學                          |
| Brownian motion                                      | 布朗運動                           |
| brownmillerite                                       | 鐵鋁酸四鈣                          |
| brown-rot fungus                                     | 褐朽真菌                           |
| brucite  | 氫氧鎂石                           |
| bruise resistance tests                              | 抗損傷試驗                          |
| Brunauer-Emmett-Teller<br>isotherm (BET<br>isotherm) | 布-厄-特等溫線                       |
| brush coating  | 刷塗                             |
| brush dyeing   | 刷染                             |
| brush marks  | 刷痕                             |
| brush plating  | 刷覆[電]鍍膜法                       |
| brushing glaze                                       | 刷釉                             |
| brushless motor                                      | 無刷馬達                           |
| b-stage  | <b>b</b> -階段；半硬化階段             |
| b-stage epoxy resin                                  | <b>b</b> -階段環氧樹脂；半硬<br>化階段環氧樹脂 |
| bubble cap   | 泡罩                             |
| bubble forming                                       | 氣泡形成；氣泡成形                      |
| bubble nucleation                                    | 氣泡成核                           |
| bubble process                                       | 氣泡製程                           |
| bubble-pressure barrier                              | 氣泡壓力阻隔                         |
| bubble-pressure barrier<br>layer                     | 加壓孔隙屏障層                        |
| bubble-pressure method                               | 加壓孔隙測定法                        |
| buck stay  | 撐柱                             |
| buckling   | 挫曲；翹曲；翹度 { 核<br>子化工 }          |
| buckminsterfullerene                                 | 巴克明斯特富勒烯                       |
| bucky onion  | 巴克洋蔥                           |

|                                      |                 |
|--------------------------------------|-----------------|
| buckyball                            | 巴克球 { C60 }     |
| buckytube                            | 巴克管 ; 碳管        |
| buff                                 | 擦光輪             |
| buffer                               | 緩衝劑 ; 緩衝器       |
| buffing                              | 擦光              |
| buffing compound                     | 擦光劑             |
| buffing paste                        | 擦光膏             |
| bug                                  | 缺陷 ; 故障 { 機電等 } |
| building block                       | 積木 { 構成單元 }     |
| building stone                       | 建築石材            |
| build-up                             | 堆積              |
| bulge forming                        | 脹大成形            |
| bulging                              | 脹大              |
| bulk compression                     | 整體壓縮            |
| bulk creep compliance                | 整體潛變柔量          |
| bulk degradation                     | 體降解             |
| bulk delivery car                    | 散裝車             |
| bulk density                         | 體密度 ; 總體密度      |
| bulk dilatation                      | 整體膨脹            |
| bulk erosion                         | 體侵蝕             |
| bulk factor                          | 體因素             |
| bulk longitudinal deformation        | 整體縱向變形          |
| bulk longitudinal relaxation modulus | 整體縱向鬆弛模數        |
| bulk modulus                         | 體模數 ; 總體模數      |
| bulk modulus of elasticity           | 體積彈性模數          |
| bulk nanostructure                   | 塊狀奈米結構          |
| bulk polymer                         | 體聚合物            |
| bulk polymerization                  | 體聚合             |
| bulk specific gravity                | 體比重             |
| bulk viscoelastic behavior           | 整體黏彈性           |
| bulk volume                          | 容體積             |
| bulk weld process                    | 佈粉電弧銲接法         |

|                               |                             |
|-------------------------------|-----------------------------|
| bulk yarn                     | 膨鬆紗                         |
| bulking                       | 脹大 ; 體積膨脹                   |
| bulking agent                 | 體積膨脹劑                       |
| bulk-to-nano transition       | 塊狀至奈米轉換                     |
| Bullard-Dunn process          | 布拉-杜恩去鏽鍍錫法                  |
| bulldozer                     | 推土機 ; 壓路機                   |
| bullion                       | 金銀塊                         |
| bull's eye structure          | 牛眼組織 { 球狀石墨鑄鐵 }             |
| bump                          | 凸塊                          |
| bumper                        | 振動機 { 造砂模用 } ; 緩衝器 { 汽機車等 } |
| Buna 115                      | 布納 115                      |
| Buna 32                       | 布納 32                       |
| Buna 85                       | 布納 85                       |
| Buna N                        | 布納 N                        |
| Buna rubber                   | 布納橡膠                        |
| bundle                        | 壓塊 { 鑄造用 }                  |
| bundy tubing                  | 捲銲鋼管                        |
| bung                          | 匣柱                          |
| Bunsen adsorption coefficient | 本生吸附係數                      |
| Bunsen ice calorimeter        | 本生冰卡計                       |
| burden                        | 進爐料                         |
| burden ratio                  | 配料比                         |
| burdenening                   | 配料                          |
| Burger's circuit              | 柏格環路                        |
| Burgers vector                | 柏格斯向量                       |
| Burger's vector               | 柏格向量                        |
| Burgundy pitch                | 伯更狄樹脂                       |
| burn dressing                 | 燒傷敷料                        |
| burned lime                   | 燒石灰                         |
| burned sand                   | 燒毀鑄砂                        |
| burning                       | 燃燒 ; 鑄砂燒結                   |
| burning characteristic        | 燃燒特性                        |
| burning on                    | 澆補 { 流道 }                   |

|                        |                              |
|------------------------|------------------------------|
| burning process        | 燃燒過程                         |
| burnishing             | 壓光；磨光                        |
| burn-out               | 燒除                           |
| burnt brass            | 燒毀黃銅                         |
| burnt deposit          | 無光澤鍍膜 { 電鍍時電流密度過大所造成之不正常鍍層 } |
| burnt dolomite         | 燒結白雲石                        |
| burnt metal            | 燒毀金屬                         |
| burnt steel            | 焚鋼                           |
| burn-up                | 燃耗率 { 核反應器 }                 |
| burr                   | 毛邊                           |
| burring                | 凸出成形；除毛頭                     |
| burst test             | 脹裂試驗 { 水壓 }                  |
| bursting               | 膨裂                           |
| bursting expansion     | 迸裂膨脹                         |
| bursting off           | 迸裂                           |
| bushing                | 襯套；軸襯                        |
| bustle pipe            | 爐腹風管                         |
| butane atmosphere      | 丁烷爐氣                         |
| butler finish          | 中度光面；粗拋光                     |
| Butler-Volmer equation | 巴特勒-福爾默方程式                   |
| butt joint             | 對接                           |
| butt strap             | 搭板                           |
| butt welding           | 對頭銲接；對頭熔接                    |
| butterfly valve        | 蝶形閥                          |
| buttering              | 銲接縫預鍍層                       |
| button                 | 金屬鈕                          |
| button lac             | 釦狀蟲膠                         |
| button test            | 熔流性試驗                        |
| bypass extruder        | 旁通擠壓機                        |
| by-product             | 副產品                          |
| by-product coke        | 副產焦炭                         |

## C

|                       |                              |
|-----------------------|------------------------------|
| C <sub>60</sub>       | 碳 60                         |
| C <sub>70</sub>       | 碳 70                         |
| cabal glass           | 鈣硼鋁玻璃                        |
| cable core            | 電纜心                          |
| cable cover           | 電纜蓋                          |
| cable covering        | 電纜套                          |
| cable drag conveyer   | 纜運機                          |
| cable filler          | 電纜填料                         |
| cable jacket          | 電纜套管                         |
| cable sheath          | 電纜鞘                          |
| cable sheathing alloy | 電纜外包合金 { Pb-1.3%Sn }         |
| cable way             | 索道                           |
| cable yarn            | 電纜紗                          |
| cableway              | 纜道；索道                        |
| cadmium (Cd)          | 鎘                            |
| cadmium copper        | 鎘銅                           |
| cadmium laurate       | 月桂酸鎘                         |
| cadmium lustre        | 鎘光料                          |
| cadmium orange        | 鎘橙                           |
| cadmium red           | 鎘紅                           |
| cadmium selenide      | 硒化鎘                          |
| cadmium soap          | 鎘皂                           |
| cadmium sulfide       | 硫化鎘                          |
| cadmium yellow        | 鎘黃                           |
| cadmium-coated steel  | 鍍鎘鋼                          |
| Caesium (Cs)          | 銫                            |
| caesium-137           | 銫-137 { 用作醫學或工業透視照相術之放射同位素 } |
| cage effect           | 籠蔽效應                         |
| cage reaction         | 籠蔽反應                         |
| caisson               | 沉箱 { 土木用 }                   |
| cake                  | 泥餅                           |

|                        |                 |
|------------------------|-----------------|
| caking                 | 結餅              |
| calcareous clay        | 石灰質黏土           |
| calcareous glaze       | 石灰釉             |
| calcareous material    | 石灰質材料           |
| calcareous scale       | 鈣質鍋垢            |
| calcification          | 鈣化              |
| calcified tissue       | 鈣化組織            |
| calcination            | 煨燒              |
| calcine                | 煨料              |
| calcined dolomite      | 煨燒白雲石 { 白雲石石灰 } |
| calcite                | 方解石             |
| calcium (Ca)           | 鈣               |
| calcium acrylate       | 丙烯酸鈣            |
| calcium aluminate      | 鋁酸鈣             |
| calcium bentonite      | 鈣系膨土；鈣系火山黏土     |
| calcium boride         | 硼化鈣             |
| calcium carbide        | 碳化鈣；電石          |
| calcium carbonate      | 碳酸鈣             |
| calcium chloride       | 氯化鈣             |
| calcium hydride        | 氫化鈣             |
| calcium hydroxide      | 氫氧化鈣            |
| calcium lignosulfonate | 木質磺酸鈣           |
| calcium molybdate      | 鉬化酸鈣            |
| calcium monoaluminate  | 單鋁酸鈣            |
| calcium orthosilicate  | 正矽酸鈣            |
| calcium phosphate      | 磷酸鈣             |
| calcium ricinoleate    | 蓖麻油酸鈣           |
| calcium silicate       | 矽酸鈣             |
| calcium silicate flux  | 矽酸鈣助熔劑          |
| calcium silicide       | 矽化鈣             |
| calcium silicon        | 矽化鈣             |
| calcium soap           | 鈣皂              |
| calcium sulfate        | 硫酸鈣             |

|                           |                                 |
|---------------------------|---------------------------------|
| calcium sulfoaluminate    | 硫鋁酸鈣                            |
| calcium-cyanamide         | 氰胺基化鈣；黑肥                        |
| calcium-manganese-silicon | 矽錳鈣[合金]                         |
| calcogenide               | 硫屬簇合物                           |
| calendaring               | 壓平；軋平                           |
| calender                  | 壓延機                             |
| calendered coating        | 壓延塗佈                            |
| calendered sheet          | 壓延膠片                            |
| calibration               | 校準；校正                           |
| californium (Cf)          | 鈾                               |
| calixarene                | 萼形芳烴                            |
| calking                   | 填隙                              |
| calking composition       | 填隙成分                            |
| Calloy                    | 卡洛 { 含 10%Ca 之 Al 合金，用作鍊鋼之除氧劑 } |
| calmodulin                | 攜鈣蛋白                            |
| calorie                   | 卡[路里]                           |
| calorific value           | 熱值                              |
| calorimeter               | 卡計；熱量計                          |
| calorimetric method       | 量熱方法                            |
| calorising                | 滲鋁；滲鋁防銹法                        |
| calorite                  | 卡路萊 { 耐熱鎳基合金系 }                 |
| calorizing                | 滲鋁；滲鋁法；滲鋁防銹法                    |
| calvaria                  | 顱頂                              |
| cambium                   | 形成層                             |
| camel                     | 駝峰閥                             |
| cameo glass               | 浮雕玻璃                            |
| cameron core              | 縮頭砂心                            |
| campaign                  | 運轉期                             |
| camphor gum               | 樟腦膠                             |
| can closure               | 罐封                              |
| can coating               | 罐塗膜                             |
| Canada balsam             | 加拿大香膠                           |

|                                |                 |
|--------------------------------|-----------------|
| canal                          | 導溝；流槽           |
| canal complex                  | 複式管道            |
| canary dextrin                 | 金黃糊精            |
| candelilla wax can             | 小燭樹蠟罐           |
| cane                           | 玻璃桿             |
| cane ware                      | 蔗色陶器            |
| Canfield reagent               | 康費德試藥 { 磷印用試藥 } |
| canned-powder forging          | 罐粉鍛造            |
| canning material               | 製罐材料；[核燃料]包層材料  |
| canonical hole                 | 標準孔洞            |
| canted ferrimagnet             | 斜交亞鐵磁體          |
| cantilever                     | 懸臂              |
| cantilever beam                | 懸臂樑；張臂樑         |
| cantilever beam impact machine | 懸臂衝擊機           |
| canton blue                    | 坎吞藍；廣東藍         |
| canvas belt finish             | 帆布修飾            |
| canvas covering                | 帆布護層            |
| cap                            | 窯頂              |
| capacitance                    | 電容              |
| capacitance                    | 電容值             |
| capacitive charging current    | 電容充電電流          |
| capacitor                      | 電容器             |
| capillary                      | 毛細管             |
| capillary electrophoresis      | 毛細管電泳           |
| capillary extrusion rheometry  | 毛細管擠壓流變測定法      |
| capillary force                | 毛細力             |
| capillary viscometry           | 毛細管黏度測定法        |
| capillary waveguide            | 毛細管波導           |
| capped steel                   | 加蓋[未靜]鋼         |
| capping                        | 封蓋              |
| capping ligand                 | 封蓋配位基           |
| capping micelle                | 封蓋微胞            |

|                                |                                     |
|--------------------------------|-------------------------------------|
| capsule                        | 膠囊                                  |
| capture cross-section          | 捕獲截面 { 核子 }                         |
| car bottom furnace             | 車底式爐                                |
| car tipper                     | 傾車器                                 |
| carat                          | 克拉 { 200mg 鑽石 } ;<br>開 { 金成分 }      |
| carbanion                      | 碳陰離子                                |
| carbanion chain polymerization | 碳陰離子鏈鎖聚合                            |
| carbazole salt                 | 咔唑鹽                                 |
| carbene                        | 碳質瀝青 ; 碳烯                           |
| carbide                        | 碳化物 ; 電石                            |
| carbide annealing              | 碳化物退火                               |
| carbide etch                   | 碳化物浸蝕劑<br>{ 5%NaOH 或 KOH 之<br>水溶液 } |
| carbide etching                | 碳化物浸蝕                               |
| carbide precipitation          | 碳化物析出                               |
| carbide slag                   | 電石渣 ; 碳化物渣                          |
| carbide stabilizer             | 碳化物穩定劑                              |
| carbide tool                   | 碳化物工具                               |
| carbides                       | 碳化物                                 |
| carbocyclic ladder polymer     | 碳環梯形聚合物                             |
| carbohydrase                   | 醣酶                                  |
| carbohydrate                   | 碳水化合物 ; 醣                           |
| Carboly                        | 卡波路 ; 碳化鎢合金<br>{ 燒結碳化鎢的商業名<br>稱 }   |
| carbon ©                       | 碳                                   |
| carbon amber glass             | 碳琥珀玻璃                               |
| carbon arc                     | 碳弧                                  |
| carbon arc discharge           | 碳電弧放電                               |
| carbon arc welding             | 碳弧銲接 ; 碳弧熔接                         |
| carbon black                   | 碳黑                                  |
| carbon brick                   | 碳磚                                  |
| carbon ceramic refractory      | 碳陶耐火材                               |
| carbon cone                    | 碳圓錐體                                |

|                                    |                      |
|------------------------------------|----------------------|
| carbon corrosion                   | 碳腐蝕                  |
| carbon diffusion                   | 碳擴散                  |
| carbon dioxide emission            | 二氧化碳排放[量]            |
| carbon dioxide laser               | 二氧化碳雷射               |
| carbon dioxide limit               | 二氧化碳限量               |
| carbon dioxide process             | 二氧化碳造模法 ; 碳酸<br>氣造模法 |
| carbon electrode                   | 碳電極                  |
| carbon equivalent                  | 碳當量                  |
| carbon equivalent meter (CE meter) | 碳當量測定計 ; CE 測<br>定計  |
| carbon fiber                       | 碳纖維                  |
| carbon fullerene                   | 碳富勒烯                 |
| carbon horn                        | 碳角錐體                 |
| carbon monoxide                    | 一氧化碳                 |
| carbon monoxide shift conversion   | 一氧化碳轉化               |
| carbon monoxide-oxygen fuel cell   | 一氧化碳-氧燃料電池           |
| carbon nanocapsule                 | 碳奈米膠囊                |
| carbon nanotube                    | 奈米碳管 ; 碳奈米管          |
| carbon nanotube (CNT)              | 奈米碳管                 |
| carbon nanotube (CNT) probe        | 碳奈米管探針               |
| carbon nitriding                   | 滲碳氮化法                |
| carbon oxidation                   | 碳氧化                  |
| carbon potential                   | 碳勢 ; 碳位能             |
| carbon powder                      | 碳粉                   |
| carbon radical                     | 碳自由基                 |
| carbon refractory                  | 碳質耐火材                |
| carbon restoration                 | 復碳                   |
| carbon rod                         | 碳棒                   |
| carbon saturation                  | 碳飽和度                 |
| carbon specialties                 | 特殊碳製品                |
| carbon stability                   | 碳穩定度                 |
| carbon steel                       | 碳鋼                   |
| carbon support                     | 碳支撐[物]               |



|                                  |             |
|----------------------------------|-------------|
| carbon tetrabromide              | 四溴化碳        |
| carbon tetrachloride             | 四氯化碳        |
| carbon tool steel                | 碳工具鋼        |
| carbonaceous aerosol             | 碳質氣膠        |
| carbonaceous inclusion           | 碳質夾雜物       |
| carbonaceous inert material      | 碳質惰性物       |
| carbon-free energy carrier       | 無碳能源載體      |
| carbon-hydrogen electrode        | 碳氫電極        |
| carbonitriding                   | 滲碳氮化法       |
| carbonium                        | 碳陽離子        |
| carbonium ion                    | 碳陽離子        |
| carbonium-ion polymerization     | 碳陽離子聚合      |
| carbonization                    | 碳化法         |
| carbonizing                      | 碳化          |
| carbon-silica fiber              | 碳矽纖維        |
| carbonyl powder                  | 碳醯法粉末       |
| carbonyl process                 | 碳醯法         |
| carboradian kiln                 | 金剛砂襯窯       |
| carborfraz                       | 金剛砂磚料       |
| carborundum                      | 金剛砂 { 碳化矽 } |
| carbothermic reduction           | 碳熱還原        |
| carboxy nitroso rubber           | 羧亞硝橡膠       |
| carboxylase                      | 羧酶          |
| carboxylate lubricant            | 羧酸鹽潤滑劑      |
| carboxylic acid                  | 羧酸          |
| carboxylic acid lubricant        | 羧酸潤滑劑       |
| carboxylic polymer               | 羧酸聚合物       |
| carboxymethyl cellulose          | 羧甲基纖維素      |
| carboxymethyl hydroxyl cellulose | 羧甲基羥乙基纖維素   |
| carboxymethyl starch             | 羧甲基澱粉       |
| carboy                           | [酸]罈        |
| carburetor                       | 汽化器         |

|                        |             |
|------------------------|-------------|
| carburization          | 滲碳法         |
| carburized case depth  | 滲碳層厚度       |
| carburized depth       | 滲碳深度        |
| carburized structure   | 滲碳組織        |
| carburizer             | 滲碳劑         |
| carburizing            | 滲碳[處理]      |
| carburizing flame      | 滲碳焰         |
| carburizing reagent    | 滲碳劑         |
| carburizing salt       | 滲碳鹽         |
| carburizing steel      | 滲碳鋼         |
| carbylamine            | 肼           |
| carcinogenesis         | 致癌作用；誘癌作用   |
| carcinogenic character | 致癌特性；誘癌特性   |
| cardiac pacemaker      | 心率調整器；心臟起搏器 |
| cardiac valve          | 心瓣膜         |
| cardign                | 起毛          |
| carene                 | 萜烯          |
| carnallite             | 光鹵石         |
| carnauba wax           | 棕櫚蠟         |
| carnegieite            | 三斜霞石        |
| Carnot cycle           | 卡諾循環        |
| Carnot efficiency      | 卡諾循環效率      |
| Carnot limit           | 卡諾循環限       |
| Carothers equation     | 卡諾瑟方程式      |
| carrier                | 載體          |
| carrier concentration  | 載體濃度        |
| carrier dyeing         | 載體染色        |
| carrier gas            | 載送氣體；載體氣    |
| carrier wave           | 載波          |
| carry ladle            | 盛桶；澆斗       |
| cartridge brass        | 彈筒黃銅；彈殼黃銅   |
| cartridge dialyzer     | 套筒透析器       |
| carving                | 彫刻          |
| cascade                | 串級；串接；階式    |

|   |                             |
|---|-----------------------------|
| cascade preplasticating injection machine | 串式預塑化射出機                    |
| cascade system                            | 串級系統                        |
| case carbon                               | 表層含碳量；表皮含碳量                 |
| case depth                                | 硬化深度                        |
| case hardening                            | 表面硬化                        |
| cased glass                               | 套色玻璃                        |
| case-hardened gear                        | 表面硬化齒輪                      |
| case-hardened glass                       | [表面]硬化玻璃                    |
| case-hardening steel                      | 表面硬化鋼；表面碳化鋼                 |
| casein                                    | 酪蛋白                         |
| casein fiber                              | 酪蛋白纖維                       |
| casein paint                              | 酪蛋白油漆                       |
| casein plastic                            | 酪蛋白塑膠                       |
| casein solubilization unit                | 酪蛋白溶解化裝置                    |
| casein-formaldehyde plastic               | 酪蛋白甲醛塑膠                     |
| casein-lime glue                          | 酪蛋白石灰膠                      |
| cashmere                                  | 羊絨；開士米羊毛                    |
| casing                                    | 套；套色                        |
| Cassel kiln                               | 克色[平焰]窯                     |
| cassiterite                               | 錫石 { 礦 · SnO <sub>2</sub> } |
| cast                                      | 鑄造                          |
| cast alloy                                | 鑄造合金；鑄性合金                   |
| cast aluminum alloy                       | 鑄造用鋁合金                      |
| cast die                                  | 鑄造模具                        |
| cast iron                                 | 鑄鐵                          |
| cast iron pipe                            | 鑄鐵管                         |
| cast magnesium alloy                      | 鑄造用鎂合金                      |
| cast polymerization                       | 澆鑄聚合                        |
| cast product                              | 鑄件產品                        |
| cast refractory                           | 鑄造耐火材                       |
| cast steel                                | 鑄鋼                          |
| cast structure                            | 鑄造組鐵                        |

|                         |                    |
|-------------------------|--------------------|
| castability             | 鑄造性；可鑄性            |
| castable refractory     | 可鑄耐火材              |
| castastrophic oxidation | 高溫劇烈氧化             |
| castcoating             | 澆塗法                |
| casting                 | 澆鑄；澆注；鑄造；鑄件        |
| casting compound        | 澆鑄配料               |
| casting crack           | 鑄裂                 |
| casting defect          | 鑄疵                 |
| casting design          | 鑄件設計               |
| casting fin             | 飛邊                 |
| casting fluidity        | 鑄造流動性              |
| casting latex           | 澆鑄乳膠               |
| casting lug             | 鑄件凸出塊              |
| casting manipulations   | 鑄造作業               |
| casting oil             | 鑄造油                |
| casting powder          | 澆鑄粉                |
| casting process         | 鑄造法                |
| casting rate            | 澆鑄速率               |
| casting sand            | 鑄砂                 |
| casting skin            | 鑄件表皮               |
| casting spot            | 澆注斑點               |
| casting strain          | 鑄造應變               |
| casting stress          | 鑄造應力               |
| casting temperature     | 澆鑄溫度               |
| casting time            | 澆鑄時間               |
| casting-pit refractory  | 澆注坑耐火材             |
| cast-in-place           | 現場澆製               |
| castomatic process      | 自動鑄造方法             |
| castor oil              | 蓖麻油                |
| castor wax              | 蓖麻蠟                |
| cast-resin technique    | 樹脂澆鑄技術             |
| cast-weld assembly      | 鋁組合                |
| Catalan furnace         | 卡特郎冶爐 { 原始熟鐵鼓風冶爐 } |

|   |               |
|---|---------------|
| catalase                                | 過氧化氫酶         |
| catalysis                               | 觸媒作用；催化作用     |
| catalyst                                | 觸媒；催化劑        |
| catalyst composition                    | 觸媒組成          |
| catalytic growth                        | 催化成長          |
| catalytic hydrogenation                 | 觸媒氫化          |
| catalytic system                        | 觸媒系統          |
| catalyzed spraying                      | 觸媒噴塗          |
| cataphoresis                            | 電泳            |
| catastrophic breakdown temperature      | 毀壞溫度          |
| catenane                                | 交環烷           |
| catenary arch                           | 懸鏈拱           |
| cathedral glass                         | 教堂窗飾玻璃        |
| cathode                                 | 陰極            |
| cathode filament                        | 陰極絲           |
| cathode performance curve               | 陰極性能曲線        |
| cathode process                         | 陰極過程          |
| cathode reaction                        | 陰極反應          |
| cathode sputtering                      | 陰極濺鍍          |
| cathode-catalyst stability              | 陰極觸媒穩定度       |
| cathodic arc deposition (CAD)           | 陰極電弧沉積        |
| cathodic control                        | 陰極控制          |
| cathodic electrochemical polymerization | 陰極電化聚合        |
| cathodic polarization                   | 陰極極化          |
| cathodic protection                     | 陰極防護；陰極防蝕     |
| cathodic protection current             | 陰極保護電流        |
| cathodic reaction                       | 陰極反應          |
| cathodic vacuum etching                 | 陰極真空蝕刻；陰極真空腐蝕 |
| cathodic-corrosion                      | 陰極腐蝕          |
| cathodoluminescence                     | 陰極發光          |
| cation                                  | 陽離子           |
| cation binding                          | 陽離子結合         |

|  |                  |
|--|------------------|
| cation exchange capacity (CEC)                   | 陽離子交換容量          |
| cation-exchange                                  | 陽離子交換            |
| cation-exchange polymer                          | 陽離子交換聚合物         |
| cation-exchange redox polymer                    | 陽離子交換氧化還原聚合物     |
| cation-exchange resin                            | 陽離子交換樹脂          |
| cationic azo dye                                 | 陽離子偶氮染料          |
| cationic coordinate polymerization               | 陽離子配位聚合          |
| cationic copolymerization                        | 陽離子共聚            |
| cationic cyanamide derivative                    | 陽離子氰胺衍生物         |
| cationic dye                                     | 陽離子染料            |
| cationic emulsifier                              | 陽離子乳化劑           |
| cationic grafting                                | 陽離子接枝            |
| cationic isomerization polymerization            | 陽離子異構聚合          |
| cationic starch                                  | 陽離子澱粉            |
| cationic surfactant                              | 陽離子界面劑           |
| cationic surface-active agent                    | 陽離子界面活性劑         |
| cat's eye  | 貓眼氣孔             |
| cauliflower top                                  | 花菜頭鋼錠            |
| caulking   | 填隙               |
| causal particle trajectory                       | 因果式粒子軌跡          |
| causal particle trajectory representation (CPTR) | 因果式粒子軌跡表述        |
| caustic alkali                                   | 苛性鹼              |
| caustic embrittlement                            | 苛性脆化             |
| caustic soda                                     | 燒鹼               |
| cavitation                                       | 孔洞化；孔穴化；裂孔化；空腔現象 |
| cavitation damage                                | 孔洞損傷；孔穴損傷；裂孔損傷   |
| cavitation erosion                               | 孔蝕               |
| cavitation process                               | 腔化製程             |
| cavity   | 腔；孔洞；孔穴；裂孔；模槽    |
| cavity analysis                                  | 腔分析              |

|                      |                 |
|----------------------|-----------------|
| cavity antenna       | 腔天線             |
| cavity design        | 模槽設計            |
| cavity die           | 穴模              |
| cavity dimension     | 模槽尺寸            |
| cavity effect        | 腔效應             |
| cavity wall          | 空心牆             |
| ceiling temperature  | 高限溫度            |
| celadon              | 青瓷              |
| celestite blue       | 天青藍             |
| celite               | 鐵鋁酸四鈣           |
| cell                 | 細胞              |
| cell constant        | 電池常數            |
| cell construction    | [單元]電池結構        |
| cell furnace         | 箱爐              |
| cell potential       | 電池電位            |
| cell reaction        | [單元]電池反應        |
| cell stack           | 電池堆             |
| cell stack assembly  | 電池堆組件           |
| cell stack endurance | 電池堆耐久性          |
| cell voltage         | [單元]電池電壓        |
| cell wall            | 細胞壁             |
| cellobiose           | 纖維雙醣            |
| cellohexaose         | 纖維六糖            |
| cellonheptaose       | 纖維七糖            |
| cellopentaose        | 纖維五糖            |
| cellophane           | 賽珞玢 { 再生纖維素薄膜 } |
| cellotetraose        | 纖維四糖            |
| cellotriose          | 纖維三糖            |
| cellular crosstalk   | 細胞溝通            |
| cellular ebonite     | 多孔狀硬橡膠          |
| cellular fiber       | 多孔纖維            |
| cellular material    | 多孔材料            |
| cellular polymer     | 多孔聚合物           |
| cellular rubber      | 多孔橡膠            |

|                              |            |
|------------------------------|------------|
| cellular structure           | 細胞狀結構；管狀結構 |
| cellular tensegrity          | 細胞張力均衡架構   |
| cellulase                    | 纖維素酶       |
| celluloid                    | 賽璐珞        |
| cellulose                    | 纖維素        |
| cellulose acetate butyrate   | 醋酸丁酸纖維素    |
| cellulose acetate laurate    | 醋酸月桂酸纖維素   |
| cellulose acetate propionate | 醋酸丙酸纖維素    |
| cellulose acetate sorbate    | 醋酸山梨酸纖維素   |
| cellulose acetate succinate  | 醋酸琥珀酸纖維素   |
| cellulose benzoate           | 苯甲酸纖維素     |
| cellulose butyrate           | 丁酸纖維素      |
| cellulose caproate           | 己酸纖維素      |
| cellulose chloroacetate      | 氯乙酸纖維素     |
| cellulose cinnamate          | 桂皮酸纖維素     |
| cellulose crotonate          | 巴豆酸纖維素     |
| cellulose diacetate          | 二醋酸纖維素     |
| cellulose ester              | 纖維素酯       |
| cellulose ether              | 纖維素醚       |
| cellulose gum                | 纖維素膠       |
| cellulose hydrocinnamate     | 苯丙酸纖維素     |
| cellulose hydroxamic acid    | 羥肟酸纖維素     |
| cellulose isobutyrate        | 異丁酸纖維素     |
| cellulose methacrylate       | 甲基丙烯酸纖維素   |
| cellulose nitrate            | 硝化纖維素      |
| cellulose nitrate lacquer    | 硝化纖維素漆     |
| cellulose nitrate process    | 硝化纖維素法     |
| cellulose nitrate propellant | 硝化纖維素推進劑   |
| cellulose phenylacetate      | 苯乙酸纖維素     |
| cellulose phosphate          | 磷酸纖維素      |
| cellulose propionate         | 丙酸纖維素      |
| cellulose resinate           | 松脂酸纖維素     |

|                           |                                     |
|---------------------------|-------------------------------------|
| cellulose stearate        | 硬脂酸纖維素                              |
| cellulose sulfate         | 硫酸纖維素                               |
| cellulose tosylate        | 甲苯磺酸纖維素                             |
| cellulose tributyrate     | 三酪酸纖維素                              |
| cellulose tricaproate     | 三己酸纖維素                              |
| cellulose tricaprilate    | 三辛酸纖維素                              |
| cellulose xanthate        | 黃原酸纖維素                              |
| cellulose-nylon blend     | 纖維素耐綸摻和物                            |
| cellulose-polyester blend | 纖維素聚酯摻合物                            |
| cellulose-spandex blend   | 纖維素彈纖維摻合物                           |
| celsian                   | 銀長石                                 |
| Celsius (°C)              | 攝氏溫度刻度                              |
| celtium                   | 鉛                                   |
| cement                    | 膠合劑；水泥                              |
| cement carbide            | 黏結碳化物                               |
| cement kiln hood          | 水泥窯罩                                |
| cement mortar             | 水泥壩料                                |
| cement paint              | 膠合漆                                 |
| cementation               | 滲碳法；滲入法；澱置法 { 例如：在稀硫酸銅中以鐵置換銅 }；膠結作用 |
| cementation index         | 膠結指數                                |
| cementing agent           | 膠合劑                                 |
| cementite                 | 雪明碳鐵；雪明碳體                           |
| cement-water ratio        | 灰水比                                 |
| center of symmetry        | 對稱中心                                |
| center upset              | 中部鍛粗件                               |
| center upset forging      | 中部鍛粗鍛件                              |
| center upsetting          | 中部鍛粗                                |
| centigrade scale          | 攝氏溫標；百度溫標                           |
| central elastic peak      | 中央彈性峰                               |
| centre brick              | 中心磚                                 |
| centrifugal blast         | 離心噴光                                |
| centrifugal blower        | 離心鼓風機                               |

|                                 |  |
|---------------------------------|--|
| centrifugal cast iron pipe      | 離心鑄鐵管  |
| centrifugal casting             | 離心鑄造；離心澆鑄  |
| centrifugal process             | 離心法  |
| Ceralumin                       | 西拉鋁明 { 含 1-3%Cu · 1-2%Si · 0.3-1.5%Fe · 0.1-1.0%Mg · 0.05-0.3%Nb 之鋁合金 }      |
| ceramal                         | 陶金   |
| ceramer                         | 陶塑體 { 陶瓷高分子交聯體 }   |
| ceramic casting                 | 陶模鑄造   |
| ceramic fiber ; ceramic fibre   | 陶瓷纖維   |
| ceramic filter                  | 陶瓷濾器   |
| ceramic fuel cell               | 陶瓷燃料電池   |
| ceramic metal                   | 陶金   |
| ceramic nozzle                  | 陶瓷噴嘴   |
| ceramic ware                    | 陶瓷器  |
| ceramic whiteware               | 白陶瓷器   |
| ceramics                        | 陶瓷   |
| ceramic-to-metal seal           | 陶瓷金屬封接   |
| cereal binder                   | 穀粉黏結劑  |
| cerium (Ce)                     | 鈰  |
| cermet                          | 陶金   |
| Cerrobend                       | 史羅本德低熔點合金 { 熔點為 70°C 含 50%Bi · 27%Pb · 13%Sn · 10%Cd 之合金 · 又稱 Wood's metal } |
| cervical fusion spacer          | 頸椎融合[填充]間隔物；頸椎融合植入體  |
| cervical spine                  | 頸椎   |
| cesium (Ce)                     | 銫  |
| cetyl vinyl ether               | 鯨蠟基乙烯基醚  |
| cetyltrimethylammonium bromide  | 溴化鯨蠟基三甲基銨  |
| cetyltrimethylammonium chloride | 氯化鯨蠟基三甲基銨  |
| Ceylon plumbago                 | 錫蘭石墨   |

|                        |         |
|------------------------|---------|
| c-frame forging hammer | 弓架鍛鏈    |
| c-frame hammer         | 弓架鏈     |
| c-frame press          | 弓架壓機    |
| chafing                | 摩擦粗化    |
| chafing-fatigue        | 摩擦粗化疲勞  |
| chain                  | 鏈       |
| chain aggregate        | 鏈聚集體    |
| chain branching        | 鏈枝      |
| chain configuration    | 鏈組態     |
| chain conformation     | 鏈構形     |
| chain defect           | 鏈缺陷     |
| chain dimension        | 鏈尺寸     |
| chain dynamics         | 鏈動態學    |
| chain entanglement     | 鏈纏結     |
| chain extender         | 鏈伸長劑    |
| chain extension        | 鏈伸長     |
| chain folding          | 鏈摺疊     |
| chain formation        | 鏈形成     |
| chain hydrometer       | 鏈式比重計   |
| chain iron             | 鏈條[用]鐵  |
| chain length           | 鏈長      |
| chain linkage          | 鏈結      |
| chain model            | 鏈模型     |
| chain molecule         | 鏈分子     |
| chain propagation      | 鏈增長     |
| chain reaction         | 連鎖反應    |
| chain rigidity         | 鏈剛性     |
| chain scission         | 鏈切斷     |
| chain silicate         | 鏈型矽酸鹽   |
| chain steel            | 鏈條[用]鋼  |
| chain stiffness        | 鏈勁度；鏈挺度 |
| chain stopping         | 鏈終止     |
| chain structure        | 鏈構架     |
| chain transfer         | 鏈轉移     |

|                                 |                   |
|---------------------------------|-------------------|
| chain type furnace              | 鏈式爐               |
| chain-breaking process          | 斷鏈法               |
| chain-end initiation            | 鏈端起始              |
| chain-fold packing              | 鏈摺堆積              |
| chain-growth polymerization     | 鏈鎖成長聚合反應          |
| chain-model theory              | 鏈模型理論             |
| chainotte                       | 燒粘土               |
| chain-reaction polyaddition     | 連鎖聚加成反應           |
| chain-reaction polycondensation | 連鎖聚縮合反應           |
| chain-reaction polymerization   | 連鎖聚合反應            |
| chain-transfer agent            | 鏈轉移劑              |
| chain-transfer coefficient      | 鏈轉移係數             |
| chain-transfer constant         | 鏈轉移常數             |
| chalcedony                      | 石髓                |
| chalcogen                       | 硫屬元素              |
| chalcogenide                    | 硫屬化合物             |
| chalcogenide glasses            | 硫屬玻璃              |
| chalk                           | 白堊                |
| chalking                        | 粉化                |
| chamber dryer                   | 室式乾燥器             |
| chamber kiln                    | 室窯                |
| chamber oven                    | 室爐                |
| chamfer                         | 倒角；去角             |
| chamotte                        | 燒粉；燒粘土            |
| chamotte brick                  | 燒粉磚；耐火磚           |
| chamotte sand                   | 燒粉砂               |
| champleve enamel                | 無線珐瑯；無線搪瓷；<br>明線釉 |
| change of phase                 | 相變化               |
| change of state                 | 狀態變化              |
| channel                         | 導槽；槽型料            |
| channel black                   | 槽製炭黑              |
| channeling                      | 空道 { 鑄造用 }        |

|                                   |                 |
|-----------------------------------|-----------------|
| chaos                             | 混沌              |
| chaperonin                        | 陪伴蛋白            |
| chaplet                           | 砂心撐             |
| char                              | 炭；焦             |
| characteristic curve of hardening | 淬火特性曲線          |
| characteristic life               | 特徵壽命            |
| characteristic radiation          | 特性輻射            |
| characteristic X-ray              | 特性 X 射線         |
| characterization                  | 特性分析；表徵分析       |
| charcoal                          | 木炭              |
| charcoal iron                     | 木炭鐵             |
| charcoal pig iron                 | 木炭生鐵            |
| charcoal powder                   | 木炭粉             |
| charcoal process                  | 木炭法 { 製造熟鐵法之一 } |
| charge                            | 加料；電荷           |
| charge carrier                    | 電荷載體；電荷載子；電載體   |
| charge carrier recombination      | 電荷載體復合          |
| charge conjugation                | 電荷共軛            |
| charge coupled device (CCD)       | 電荷耦合元件          |
| charge density                    | 電荷密度            |
| charge double layer               | 電荷雙層            |
| charge effect                     | 電荷效應            |
| charge polarization               | 電荷極化            |
| charge sensitivity                | 電荷靈敏度           |
| charge symmetry                   | 電荷對稱性           |
| charge transfer                   | 電荷轉移            |
| charge transfer coefficient       | 電荷轉移係數          |
| charge transfer complex           | 電荷轉移複合物         |
| charge/discharge life             | 充放電壽命           |
| charged body                      | 帶電體             |
| charged meson                     | 帶電介子            |
| charged particle                  | 帶電粒子            |

|                            |                      |
|----------------------------|----------------------|
| charger                    | 充電器                  |
| charging                   | 充電                   |
| charging current           | 充電電流                 |
| charging door              | 加料門                  |
| charging hopper            | 加料斗                  |
| charging machine           | 加料機                  |
| Charpy impact test         | 沙丕衝擊試驗；單樑衝擊試驗        |
| Charpy impact value        | 沙丕衝擊值                |
| Charpy test                | 沙丕試驗；單樑衝擊試驗          |
| charring                   | 炭化；焦化                |
| chatelier-type microscope  | 倒置式顯微鏡               |
| chatter                    | 顫震 { 機器 }；波紋 { 加工面 } |
| checker                    | 格子磚                  |
| checking                   | 裂痕 { 塗料 }            |
| check flask                | 中間砂箱 { 鑄造用 }         |
| chelate                    | 螯合物                  |
| chelated polymer           | 螯合聚合物                |
| chelating agent            | 螯合劑                  |
| chelating resin            | 螯合樹脂                 |
| chelation                  | 螯合                   |
| chemical activity          | 化學活性                 |
| chemical affinity          | 化學親和力                |
| chemical analysis          | 化學分析                 |
| chemical application       | 化學應用                 |
| chemical attack            | 化學侵蝕                 |
| chemical bond              | 化學鍵                  |
| chemical bonded refractory | 化學膠結耐火材              |
| chemical bonding           | 化學鍵結                 |
| chemical catalysis         | 化學催化                 |
| chemical cellulose         | 化學纖維素                |
| chemical cleaning          | 化學清潔                 |
| chemical coating           | 化學塗膜                 |

|                                     |             |
|-------------------------------------|-------------|
| chemical computer                   | 化學電腦        |
| chemical contouring                 | 化學銑邊        |
| chemical conversion                 | 化學轉化        |
| chemical cotton                     | 化學棉         |
| chemical crosslinking               | 化學交聯        |
| chemical degradation                | 化學降解        |
| chemical diffusion coefficient      | 化學擴散係數      |
| chemical effect                     | 化學效應        |
| chemical element                    | 化學元素        |
| chemical energy                     | 化學能         |
| chemical equilibrium constant       | 化學平衡常數      |
| chemical equivalent                 | 化學當量        |
| chemical etch principle             | 化學蝕刻原理      |
| chemical etching                    | 化學蝕刻        |
| chemical evolution                  | 化學演化        |
| chemical fastness                   | 化學耐性        |
| chemical finishing                  | 化學終整 { 表面 } |
| chemical flow                       | 化學流動        |
| chemical force microscope (CFM)     | 化學力顯微鏡      |
| chemical force spectroscopy         | 化學力光譜術      |
| chemical grout                      | 化學漿料；化學漿液   |
| chemical hygrometer                 | 化學溼度計       |
| chemical interaction                | 化學交互作用      |
| chemical interface damping          | 化學界面阻尼      |
| chemical lead                       | 硬鉛          |
| chemical ligation method            | 化學接合法       |
| chemical luminescence               | 化學發光        |
| chemical microencapsulation process | 化學微膠囊化製程    |
| chemical milling                    | 化學銑製        |
| chemical modification               | 化學改質；化學修飾   |
| chemical plasticizer                | 化學塑化劑       |

|  |               |
|--|---------------|
| chemical plating                             | 化學電鍍          |
| chemical polishing                           | 化學拋光          |
| chemical potential                           | 化學位勢          |
| chemical potential                           | 化學勢           |
| chemical potential diagram                   | 化學勢圖          |
| chemical probe                               | 化學探針          |
| chemical procelain                           | 化學用瓷器         |
| chemical pulp                                | 化學紙漿          |
| chemical pulping                             | 化學製漿          |
| chemical reaction                            | 化學反應          |
| chemical regularity                          | 化學規律性         |
| chemical resistance                          | 抗化學腐蝕性        |
| chemical sensor                              | 化學感測器         |
| chemical shift                               | 化學位移          |
| chemical shift anisotropy                    | 化學位移異向性       |
| chemical stoneware                           | 化學用炆器         |
| chemical structure                           | 化學結構          |
| chemical surface hardening                   | 化學表面硬化        |
| chemical testing                             | 化學試驗          |
| chemical thermal treatment                   | 化學熱處理         |
| chemical transformation                      | 化學轉變          |
| chemical transport reaction                  | 化學轉移反應；化學輸送反應 |
| chemical treatment                           | 化學處理          |
| chemical vapor condensation                  | 化學氣相凝聚        |
| chemical vapor deposition (CVD)              | 化學氣相沉積        |
| chemical vapor transport                     | 化學氣相傳輸        |
| chemical-fixation composition                | 化學固定組成        |
| chemical-flux cutting                        | 藥劑助熔切割        |
| chemically assisted ion-beam etching (CAIBE) | 化學輔助離子束蝕刻     |
| chemically precipitate metal powder          | 化學沉積金屬粉末      |



|                              |              |
|------------------------------|--------------|
| chemically resistant polymer | 抗化學腐蝕聚合物     |
| chemically resistant rubber  | 抗化學腐蝕橡膠      |
| chemigroundwood pulp         | 化學磨木漿        |
| chemiluminescence            | 化學發光         |
| chemimiechanical pulping     | 化學機械磨漿法      |
| chemisorption                | 化學吸附         |
| chemochromic material        | 化致變色材料       |
| chemotaxis                   | 化學趨性         |
| chert                        | 燧石           |
| cherty limestone             | 矽質石灰質        |
| chest knife                  | 刮刀           |
| chevron                      | 鋼料脆性破裂面      |
| chill                        | 冷硬面；冷鐵；急冷；冷硬 |
| chill block                  | 冷硬試件         |
| chill cast                   | 冷硬鑄造法        |
| chill cast ingot             | 金屬模鑄錠        |
| chill cast pig iron          | 金屬模製生鐵       |
| chill casting                | 冷硬鑄造         |
| chill coating                | 金屬模用塗料       |
| chill crack                  | 淬裂；急冷裂痕      |
| chill depth                  | 冷硬深度         |
| chill hardening              | 冷硬法          |
| chill mark                   | 淬紋           |
| chill mold                   | 冷硬鑄模         |
| chill mottle control         | 冷硬斑白控制       |
| chill nail                   | 急冷釘          |
| chill oil                    | 金屬模用塗油       |
| chill shortness              | 急冷脆性         |
| chill test                   | 冷硬試驗；急冷試驗    |
| chill zone                   | 冷硬層          |
| chill zone without mottle    | 完全冷硬層        |
| chilled cast iron            | 冷硬鑄鐵；硬面鑄鐵    |

|                                 |                       |
|---------------------------------|-----------------------|
| chilled casting                 | 冷硬鑄件；硬面鑄件             |
| chilled effect                  | 冷硬效果                  |
| chilled glass                   | 強化玻璃                  |
| chilled roll                    | 冷硬軋輥；冷硬輥              |
| chilled-iron shot               | 冷硬鐵珠                  |
| chiller                         | 冷凍器；冷卻器；冷凝器           |
| chills with mottled zone        | 斑口冷硬層                 |
| chills without mottled zone     | 白口冷硬層                 |
| china                           | 瓷器                    |
| china clay                      | 瓷土                    |
| china process                   | 成瓷法                   |
| china stone                     | 陶石                    |
| China wood oil                  | 桐油                    |
| Chinese blue                    | 中國藍；回回青               |
| Chinese motif                   | 中國式匠意                 |
| Chinese National Standard (CNS) | 中國國家標準                |
| Chinese script                  | 中國字紋 { 角形顯微組織·類似中國字 } |
| Chinese wood oil                | 桐油                    |
| chintz finish                   | 印花布修整                 |
| chip                            | 切屑；碎片；片紋              |
| chipboard                       | 木粒板；碎料板               |
| chip-on-glass (COG)             | 覆晶玻璃構裝                |
| chipping                        | 剝離                    |
| chiral center                   | 對掌中心                  |
| chiral index                    | 對掌性指標                 |
| chiral nanowire                 | 對掌性奈米[導]線             |
| chiral structure                | 對掌結構                  |
| chiral vector                   | 對掌性向量                 |
| chirality                       | 對掌性                   |
| chisel                          | 鑿；鑿                   |
| chisel steel                    | 鑿子鋼                   |
| chitin                          | 幾丁質；甲殼質；甲殼醣；殼醣；殼質     |

|                                   |                     |
|-----------------------------------|---------------------|
| chitin-protein complex            | 幾丁質蛋白複合體            |
| chitosan                          | 幾丁聚醣                |
| chlorate                          | 氯酸鹽                 |
| chloridizing roasting             | 氯化焙燒                |
| Chlorimet                         | 克勞里鎳合金 { 鎳基合金系專利名 } |
| chlorinated butyl rubber          | 氯化丁基橡膠              |
| chlorinated para red              | 氯化巴拉紅 ; 氯化對硝苯胺紅     |
| chlorinated paraffin              | 氯化石蠟                |
| chlorinated phenol                | 氯化酚                 |
| chlorinated poly (vinyl chloride) | 氯化聚氯乙烯              |
| chlorinated polyether             | 氯化聚醚                |
| chlorinated polyethylene          | 氯化聚乙烯               |
| chlorinated polypropylene         | 氯化聚丙烯               |
| chlorinated rubber                | 氯化橡膠                |
| chlorinated starch                | 氯化澱粉                |
| chlorination                      | 氯化 ; 氯化法            |
| chlorine bleach                   | 氯漂白                 |
| chlorine retention                | 氯殘留                 |
| chlorine-containing polymer       | 含氯聚合物               |
| chlorite                          | 綠泥石                 |
| chlorocarbon-antimony oxide       | 氯碳銻氧化物              |
| chlorofluorocarbon (CFC)          | 氟氯碳化物               |
| chlorophenol                      | 氯酚                  |
| chlorophyll                       | 葉綠素                 |
| chloroplast                       | 葉綠體                 |
| cholesterol                       | 膽固醇                 |
| chondrocyte                       | 軟骨細胞                |
| chopper circuit                   | 截波電路                |
| chromate                          | 鉻酸鹽                 |
| chromate coating                  | 鉻酸鹽護膜               |
| chromate -conversion coating      | 轉化鉻酸鹽膜              |

|                               |                         |
|-------------------------------|-------------------------|
| chromate treatment            | 鉻酸處理                    |
| chromatin                     | 染色質                     |
| chromatogram                  | 層析圖                     |
| chromatography                | 層析法 ; 色層分析術             |
| chrome base refractory        | 鉻基耐火材                   |
| chrome brick                  | 鉻磚                      |
| chrome complex                | 鉻錯合物                    |
| chrome copper                 | 鉻銅 { 99%Cu · 1%Cr 銅合金 } |
| chrome dye                    | 鉻染料                     |
| chrome green                  | 鉻綠                      |
| chrome iron stone             | 鉻鐵礦                     |
| chrome leather                | 鉻革                      |
| chrome orange                 | 鉻橙                      |
| chrome ore                    | 鉻礦                      |
| chrome pickle                 | 鉻酸處理                    |
| chrome refractory             | 鉻質耐火材                   |
| chrome spinel                 | 鉻尖晶石                    |
| chrome steel                  | 鉻鋼                      |
| chrome yellow                 | 鉻黃                      |
| chrome-alumina pink           | 鉻鋁紅                     |
| Chromel                       | 克鉻美合金 { 熱電偶用鎳鉻合金 }      |
| Chromel / alumel thermocouple | 克鉻美/亞鋁美熱電偶              |
| chrome-lignin                 | 鉻木質                     |
| chrome-magnesite              | 鉻鎂礦                     |
| chrome-magnesite refractory   | 鉻鎂耐火材                   |
| chrome-mordant method         | 鉻媒染法                    |
| chrome-tin pink               | 鉻錫紅                     |
| chrome-zircon pink            | 鉻鋯紅                     |
| chromic property              | 變色特性                    |
| chromite                      | 鉻鐵礦                     |
| chromite brick                | 鉻磚                      |
| chromium (Cr)                 | 鉻                       |

|                         |  |
|-------------------------|--|
| chromium acetate        | 醋酸鉻；乙酸鉻  |
| chromium alloy          | 鉻合金  |
| chromium borohydride    | 硼氫化鉻   |
| chromium copper         | 鉻銅   |
| chromium depletion      | 脫鉻   |
| chromium leaching       | 鉻浸濾  |
| chromium oxide          | 氧化鉻  |
| chromium plating iron   | 鍍鉻鐵  |
| chromium salt           | 鉻鹽   |
| chromium steel          | 鉻鋼   |
| chromizing              | 滲鉻法  |
| chromophore             | 發色團  |
| chronic inflammation    | 慢性發炎   |
| chronic toxicity        | 慢性毒性   |
| Chronite                | 克羅耐合金 { 65%Ni · 20%Fe · 13%Cr · 1%Mn · 0.5%Si · 0.5%Al } |
| chronoamperometry       | 計時安培分析法  |
| chronocoulometry        | 計時庫侖分析法  |
| chrysanthemum structure | 菊花組織   |
| chrysoberyl             | 金綠寶石   |
| chrysotile              | 白石綿；溫石綿  |
| chrysotile asbestos     | 溫石綿  |
| chrystile               | 纖維蛇紋石；溫石綿  |
| chunk glass             | [光學]玻璃塊  |
| chunk graphite          | 毛蟲狀石墨  |
| chute                   | 滑槽   |
| chymopapain             | 凝乳木瓜酶  |
| chymotrypsin            | 胰凝乳蛋白酶   |
| cinder                  | 爐渣   |
| cinder notch            | 出渣口  |
| cinnabar                | 辰砂；硃砂 { HgS · 水銀礦 }                                      |
| cinnamic acid ester     | 桂皮酸酯   |
| circle brick            | 扇形磚  |

|                            |               |
|----------------------------|---------------|
| circular birefringence     | 圓形雙折射         |
| circular dichroism         | 圓形雙色性         |
| circular dichroism (CD)    | 圓偏光雙色性；圓環雙色性  |
| circular die extrusion     | 圓模擠壓          |
| circular knit fabric       | 圓編織品          |
| circular polariscope       | 圓形旋光計         |
| circular saw               | 圓鋸            |
| circular woven hose        | 圓織軟管          |
| circularly polarized light | 圓偏振光          |
| circulating electrolyte    | 循環電解質         |
| cis-trans isomerization    | 順反異構化反應       |
| citrate process            | 檸檬酸鹽法         |
| clad inconel steel         | 英高鎳包層鋼        |
| clad metal                 | 包層金屬          |
| clad steel                 | 包層鋼           |
| cladded metal structure    | 包層金屬結構        |
| cladding                   | 護套；材料外覆層      |
| cladding mode              | 披覆層模態         |
| clading process            | 包層法；護面法       |
| clamp kiln                 | 野燒窯           |
| clamping pressure          | 夾壓            |
| clamshell mark             | 蚌殼紋 { 疲勞標記用 } |
| clashing color             | 鬥彩            |
| classification             | 分類；分級         |
| classifier                 | 分類機；分級機       |
| classing                   | 分級            |
| clay                       | 黏土            |
| clay brick                 | 黏土磚           |
| clay building brick        | 建築黏土磚         |
| clay crucible              | 黏土坩堝          |
| clay extender              | 黏土增量劑         |
| clay lumb                  | 黏土塊           |
| clay minerals              | 黏土礦物          |
| clay shredder              | 切泥機           |

|                       |                               |
|-----------------------|-------------------------------|
| clay slate            | 黏板岩                           |
| clay substance        | 黏土物質                          |
| clay test             | 黏土份試驗                         |
| clay wash             | 黏土漿                           |
| clay-graphite mixture | 黏土石墨混合物                       |
| clean metal           | 淨金屬                           |
| cleaner               | 清潔劑；清潔器                       |
| cleaning index        | 清潔指數                          |
| cleaning solution     | 清潔液                           |
| cleanness             | 清潔度                           |
| clear glaze           | 清釉                            |
| clear point           | 澄點                            |
| cleats                | 瓷夾板                           |
| cleavage              | 晶劈面；劈開；劈裂                     |
| cleavage adhesion     | 開裂黏附                          |
| cleavage crack        | 劈裂                            |
| cleavage fracture     | 劈開破裂                          |
| cleavage loading      | 開裂負荷                          |
| cleavage plane        | 劈開面                           |
| cleavage planes       | 劈裂平面                          |
| cleavage simulation   | 開裂模擬                          |
| cleavage structure    | 劈開組織                          |
| cleavage test         | 開裂試驗                          |
| climb                 | [差排]爬登                        |
| climb milling         | 順銑                            |
| clinical trial        | 臨床試驗                          |
| clinker               | 熟料；燒塊；熔結塊                     |
| clinkered dolomite    | 白雲石熟料；燒結白雲石                   |
| clinkering zone       | 燒成帶                           |
| clinoenstatite        | 斜頑輝石                          |
| clock brass           | 鐘錶黃銅 { 62%Cu · 36%Zn · 2%Pb } |
| cloisonne enamelware  | 景泰藍                           |
| close annealing       | 密閉退火                          |

|                                    |                     |
|------------------------------------|---------------------|
| closed failure                     | 閉合差 { 測量用 }         |
| closed pass                        | 閉軋道                 |
| closed pore                        | 閉合孔                 |
| closed pot                         | 有蓋熔罐                |
| closed $\gamma$ -field             | 閉合 $\gamma$ 區；閉合伽瑪區 |
| closed-cell foam                   | 閉孔泡沫                |
| closed-circuit grinding            | 閉路研磨                |
| close-die forging                  | 閉模鍛造；閉模鍛件           |
| close-packed cubic structure       | 最密立方結構              |
| close-packed direction             | 緊密堆積方向              |
| close-packed hexagonal structure   | 最密六方結構              |
| close-packed plane                 | 緊密堆積平面              |
| close-packed structure             | 最密堆積結構              |
| closet suite                       | 衛生瓷組                |
| clot formation                     | 血塊形成                |
| cloud point                        | 濁點                  |
| cloudburst hardness testing method | 鋼球噴擊硬度試驗法           |
| cloudburst treatment               | 鋼球噴擊處理              |
| cluster                            | 團簇；叢集               |
| cluster array                      | 團簇陣列；叢集陣列           |
| cluster glass                      | 團簇玻璃                |
| cluster hardening                  | 叢集硬化                |
| cluster integral                   | 簇整體                 |
| cluster mill                       | 叢集軋機；多輥軋機           |
| clustering                         | 成簇                  |
| clustering tendency                | 成簇傾向                |
| cluster-type theory                | 簇型理論                |
| CO oxidation                       | 一氧化碳氧化              |
| CO tolerance                       | 一氧化碳容限              |
| CO <sub>2</sub> process            | 二氧化碳造模法             |
| CO <sub>2</sub> tolerance          | 二氧化碳容限              |
| CO <sub>2</sub> welding            | 二氧化碳熔接              |

|                                   |             |
|-----------------------------------|-------------|
| CO <sub>2</sub> -silicate process | 二氧化碳-水玻璃造模法 |
| coacervate complex                | 凝聚複合物       |
| coacervate droplet                | 凝聚小滴        |
| coacervation                      | 凝聚          |
| coacervation equilibrium          | 凝聚平衡        |
| coacervation process              | 凝聚法         |
| coagent                           | 助劑          |
| coagulant                         | 凝結劑         |
| coagulation                       | 凝結；凝聚       |
| coal                              | 煤           |
| coal dust                         | 煤粉          |
| coal gas                          | 煤氣          |
| coal gasification                 | 煤炭氣化        |
| coal tar                          | 煤塔；煤焦油      |
| coal-assisted electrolysis        | 煤炭輔助電解      |
| coalesced copper                  | 壓結[粉銅]      |
| coalescence                       | 聚結；聚併       |
| coalescing agent                  | 聚結劑         |
| coal-tar additive                 | 煤焦添加劑；煤塔添加劑 |
| coal-tar pitch                    | 煤焦瀝青；煤塔瀝青   |
| coarse aggregate                  | 粗骨材         |
| coarse grain                      | 粗晶粒         |
| coarse pearlite                   | 粗波來體；粗波來鐵   |
| coarse structure                  | 粗晶組織        |
| coarse wire                       | 粗線          |
| coarsening                        | 粗化          |
| coat                              | 表層護膜；塗料     |
| coated electrode                  | 包覆熔接條       |
| coated fiber probe                | 披覆纖維探針      |
| coated filament                   | 塗層燈絲        |
| coated lens                       | 塗層透鏡        |
| coated objective lens             | 塗層物鏡        |
| coated sand                       | 裹貼砂         |

|                                  |  |
|----------------------------------|--|
| coating                          | 塗層；塗佈；包覆；包覆料；護膜；表面塗敷                               |
| coaxial nanocable                | 同軸奈米纜線   |
| coaxing                          | 應力引強處理；抗疲勞處理                                       |
| cobalt (Co)                      | 鈷  |
| cobalt alloy                     | 鈷合金  |
| cobalt aluminate                 | 鋁酸鈷  |
| cobalt blue                      | 鈷藍   |
| cobalt metaborate                | 間位硼酸鈷；偏硼酸鈷   |
| cobalt naphthanate               | 萘酸鈷  |
| cobalt soap                      | 鈷皂   |
| cobalt-60                        | 鈷六十  |
| cobalt-60 irradiation            | 鈷 60 照射  |
| cobalt-base hard facing alloy    | 鈷基硬面合金   |
| cobalt-base heat-resisting alloy | 鈷基耐熱合金   |
| cobalt-based alloy               | 鈷基合金   |
| cobalt-chromium alloy            | 鈷鉻合金   |
| cobaltite                        | 輝砷鈷礦   |
| cobalt-platinum alloy            | 鈷鉑合金 { 一種磁性材料 }                                    |
| cobbing                          | 小塊料  |
| Coble densification              | 柯博緻密化  |
| cocatalyst                       | 助觸媒  |
| cochlear                         | 耳蝸   |
| cochlear prostheses              | 人工耳蝸   |
| cocoa powder                     | 可可粉 { 紅棕色 Fe <sub>2</sub> O <sub>3</sub> 粉狀沉積之俗名 } |
| co-current reformer              | 並流重組器  |
| cod                              | [上砂模]帛砂  |
| coding strand                    | 編碼鏈  |
| coefficient of adhesion          | 附著係數   |
| coefficient of diffusion         | 擴散係數   |
| coefficient of elasticity        | 彈性係數   |
| coefficient of expansion         | 膨脹係數   |
| coefficient of friction          | 摩擦係數   |

|                                  |               |
|----------------------------------|---------------|
| coefficient of rupture           | 破壞係數          |
| coefficient of scatter           | 散射係數          |
| coefficient of thermal expansion | 熱脹係數          |
| coefficient of utilization       | 使用係數          |
| coefficient of variation         | 變異係數          |
| coefficient of viscosity         | 黏性係數；黏度係數     |
| coenzyme                         | 輔酶            |
| coercive field                   | 矯頑電場          |
| coercive force                   | 保磁力；矯頑磁力      |
| coercive force                   | 矯頑力           |
| coercivity                       | 保磁力；矯頑磁力；矯頑磁性 |
| coercivity                       | 矯頑性           |
| coesite                          | 單斜矽石          |
| cofiring                         | 共燒            |
| cogeneration                     | 汽電共生          |
| cogging                          | 粗軋；初鍛         |
| cogging mill                     | 粗軋機           |
| coherence length                 | 同調長度          |
| coherency                        | 整合；同調         |
| coherent exchange scattering     | 同調交換散射        |
| coherent interphase interface    | 整合相間界面        |
| coherent precipitate             | 整合析出          |
| coherent strain                  | 整合應變          |
| cohesion                         | 內聚力；凝聚力       |
| cohesion energy                  | 內聚能           |
| cohesive energy                  | 內聚能；凝聚能       |
| cohesive-energy density          | 內聚能密度         |
| coil                             | 捲料；盤管；線圈      |
| coil building                    | 盤條砌成          |
| coil coating                     | 線圈塗佈          |
| coil stock                       | 盤捲備料          |
| coil strip                       | 盤捲帶料          |

|                               |                              |
|-------------------------------|------------------------------|
| coin silver                   | 造幣銀                          |
| coinability                   | 壓印性                          |
| coinage bronze                | 造幣青銅 { 95%Cu · 4%Zn · 1%Pb } |
| coinage gold                  | 造幣金 { 含金 91.66% 相當於 22k }    |
| coinage nickel                | 造幣鎳 { 75%Cu · 25%Ni }        |
| coining                       | 壓印                           |
| coir fiber                    | 椰纖維                          |
| coke                          | 焦炭                           |
| coke bed                      | 焦炭床層                         |
| coke breeze                   | 焦炭粉                          |
| coke furnace                  | 焦炭爐                          |
| coke oven                     | 煉焦爐                          |
| coke oven gas                 | 煉焦爐氣                         |
| coke oven light oil           | 煉焦輕油                         |
| coke pig iron                 | 焦炭煉生鐵                        |
| coke powder                   | 焦炭粉                          |
| coke ratio                    | 焦炭比                          |
| coking chamber                | 焦化室                          |
| coking coal                   | 煉焦煤                          |
| colclad                       | 包層鋼                          |
| cold aging                    | 低溫時效                         |
| cold anodising                | 冷陽極處理                        |
| cold bend test                | 冷彎試驗                         |
| cold brittleness              | 冷脆性                          |
| cold cathode ionization gauge | 冷陰極游離真空計                     |
| cold coining                  | 冷壓印                          |
| cold crushing strength        | 常溫抗碎強度                       |
| cold crystallization          | 冷結晶                          |
| cold cure                     | 冷硬化                          |
| cold drawing                  | 冷抽；冷拉                        |
| cold extrusion                | 冷擠                           |
| cold forging                  | 冷鍛                           |

|                          |                |
|--------------------------|----------------|
| cold forming             | 冷成；冷成型         |
| cold galvanising         | 冷鍍鋅法           |
| cold hardening           | 冷硬化            |
| cold heading             | 冷作頭；冷鍛釘頭       |
| cold hearth melting      | 冷膛熔解           |
| cold hobbing             | 冷切壓            |
| cold junction            | 冷接端；冷接點        |
| cold laps                | 冷疊 { 鑄疵 }      |
| cold molding             | 冷模製            |
| cold plastic deformation | 冷塑性變形          |
| cold pressing            | 冷壓             |
| cold pressure welding    | 常溫壓接           |
| cold reduction           | 冷減縮            |
| cold reduction mill      | 冷減縮軋機          |
| cold repair              | 冷修             |
| cold rolling             | 冷軋             |
| cold rubber              | 冷橡膠 { 低溫聚合橡膠 } |
| cold sawing              | 冷鋸切            |
| cold set resin           | 常溫硬化樹脂         |
| cold shearing            | 冷剪切            |
| cold shortness           | 冷脆性            |
| cold shot                | 冷珠 { 鑄疵 }      |
| cold shut                | 冷接紋；冷接         |
| cold trap                | 冷凝阱            |
| cold treatment           | 冷處理            |
| cold trimming            | 冷修邊            |
| cold wall furnace        | 冷壁爐            |
| cold welding             | 冷熔接            |
| cold working             | 冷加工；冷作；常溫加工    |
| cold-cracking            | 冷[破]裂          |
| cold-formed structure    | 冷成型結構          |
| cold-soda pulp           | 冷鈉鹼紙漿          |
| cold-tube process        | 冷管製程           |

|                            |            |
|----------------------------|------------|
| cold-water-swelling starch | 冷水膨脹澱粉     |
| cold-weather concreting    | 寒天混凝土澆灌    |
| colemanite                 | 硬硼酸鈣石      |
| collagen                   | 膠蛋白；膠原蛋白   |
| collapsibility             | 崩潰性        |
| collar                     | 軸；環；圈      |
| collargol                  | 膠體銀        |
| collaring                  | 縮頸         |
| colligative property       | 依數性質       |
| collimator                 | 準直儀        |
| collodion                  | 珂瑤酊；火棉膠；膠綿 |
| colloid                    | 膠體；膠質      |
| colloid mill               | 膠體磨機       |
| colloid self-assembly      | 膠體自組裝      |
| colloid stabilizer         | 膠體安定劑      |
| colloidal                  | 膠態         |
| colloidal clay             | 膠質黏土       |
| colloidal crystal          | 膠體晶體       |
| colloidal graphite         | 膠態石墨       |
| colloidal metal            | 膠態金屬       |
| colloidal metal cell       | 膠態金屬粒光電管   |
| colloidal particle         | 膠粒；膠態粒子    |
| colloidal property         | 膠態性質       |
| colloidal solution         | 膠體溶液       |
| colloidal state            | 膠態         |
| colloidal suspension       | 膠態懸浮液      |
| colloidal system           | 膠態物系       |
| colloidal templating       | 膠體模板       |
| colloidal theory           | 膠體理論       |
| colloidalty                | 膠體性；膠體變    |
| colophone                  | 松香         |
| color bleeding             | 脫色         |
| color center               | 發色中心       |
| color change               | 變色         |

|                                      |                |
|--------------------------------------|----------------|
| color comparater                     | 比色器            |
| color comparision                    | 比色             |
| color concentrate                    | 色精             |
| color control                        | 顏色控制           |
| color dispersion                     | 顏色分散；顏色散佈      |
| color fastness                       | 顏色牢固性；色固性；不褪色性 |
| color index                          | 比色指數           |
| color matching                       | 配色             |
| color measurement                    | 量色法            |
| color monitoring                     | 色素偵檢           |
| color pyrometer                      | 比色高溫計          |
| color stability                      | 顏色安定度          |
| color standard                       | 顏色標準           |
| color temperature                    | 色溫；色溫度         |
| color test                           | 呈色試驗           |
| colorant                             | 著色劑            |
| coloration                           | 上色             |
| colored glaze                        | 色釉             |
| colorimeter                          | 比色計            |
| colorimetry                          | 比色定量法          |
| coloring                             | 上色；著色          |
| coloring material                    | 著色料            |
| colossal magnetoresistance (CMR)     | 龐磁阻            |
| columbium (Cb)                       | 鈮 { 現改名為鈮 }    |
| columbium alloy                      | 鈮合金；鈮合金 { 舊名 } |
| column                               | 柱              |
| column chromatographic fractionation | 管柱層析分餾法        |
| column chromatography                | 管柱層析法          |
| column performance                   | 柱效能            |
| columnar crystal                     | 柱狀[結]晶         |
| columnar ferrite                     | 柱狀肥粒鐵          |
| columnar grain                       | 柱狀晶粒           |

|                               |           |
|-------------------------------|-----------|
| columnar magnet               | 柱狀磁體      |
| columnar structure            | 柱狀結構；柱狀組織 |
| comb rack                     | 柵架        |
| combination grain             | 混合粒度      |
| combination termination       | 結合終止反應    |
| combinatorial synthesis       | 組合合成      |
| combined aggregate            | 混合骨材      |
| combined austempering         | 複合沃斯回火    |
| combined carbon               | 化合碳       |
| combined cycle systems        | 聯合循環系統    |
| combined heat and power       | 汽電共生      |
| combined isothermal treatment | 複合恆溫處理    |
| combined polarization         | 混合極化      |
| combined stress               | 合成應力      |
| combined water                | 結合水       |
| combing                       | 精梳        |
| comb-shaped polymer           | 梳狀聚合物     |
| combustibility                | 燃燒性       |
| combustion                    | 燃燒        |
| combustion analysis           | 燃燒分析      |
| combustion analyzers          | 燃燒分析儀     |
| combustion constant           | 燃燒常數      |
| combustion control systems    | 燃燒控制系統    |
| combustion efficiency         | 燃燒效率      |
| combustion gas turbines       | 燃氣渦輪發動機   |
| combustion loss               | 燃燒損耗      |
| combustion ratio              | 燃燒比       |
| combustion stability          | 燃燒安定性     |
| combustion tester             | 燃燒試驗器     |
| commercial bronze             | 商用青銅      |
| commercial grade              | 商用品級      |
| comminution                   | 粉碎；磨粉     |
| common brick                  | 普通磚       |



|                          |                 |
|--------------------------|-----------------|
| common coke              | 普通焦炭            |
| common graphite          | 普通石墨            |
| commons                  | 粗磚              |
| community effect         | 群落效應            |
| comol                    | 鈷鋁 { 鈷鋁鐵磁性合金 }  |
| compact                  | 粉壓坯             |
| compact disc (CD)        | 光碟              |
| compact globule          | 緊密小球            |
| compactability           | 壓縮性             |
| compacted graphite iron  | 縮墨鑄鐵            |
| compacting factor test   | 壓實因數試驗          |
| compaction               | 壓粉；壓實；緊密作用      |
| compactness              | 小型化             |
| compatibility            | 調和性；相容性；互適性；適合性 |
| compatibilization        | 增容性             |
| compeb mill              | 多倉磨             |
| compensation temperature | 補償溫度            |
| complement               | 補體素             |
| complement receptor      | 補體受體            |
| complement system        | 補體系統            |
| complete austenitizing   | 完全沃斯田體化；完全沃斯田鐵化 |
| complete chill           | 完全冷硬            |
| complete fiber structure | 完全纖維組織          |
| complex                  | 錯合體；複合體         |
| complex alloy steel      | 複合金鋼            |
| complex bond             | 錯合鍵             |
| complex catalyst         | 複合觸媒            |
| complex coacervate       | 複合凝聚層           |
| complex coacervation     | 錯合凝聚            |
| complex copolymerization | 錯合共聚合           |
| complex defect           | 複合缺陷            |
| complex elastic modulus  | 複彈性模數           |

|                                   |            |
|-----------------------------------|------------|
| complex impedance                 | 複阻抗；複變阻抗   |
| complex propagation constant      | 錯合傳播常數     |
| complexation hydrogel             | 錯合水膠       |
| compleximetric titration          | 錯合滴定       |
| complexing agent                  | 錯合劑；複離子形成劑 |
| compliance                        | 柔量         |
| complication                      | 併發症        |
| component                         | 成分；組件      |
| composite                         | 複合物；複合材料   |
| composite compact                 | 複合粉胚       |
| composite die                     | 組合模        |
| composite efficiency              | 複合效率       |
| composite electrode               | 複合電極       |
| composite material                | 複合材料       |
| composite propellant              | 複合推進劑      |
| composite roll                    | 複[合]軋輥     |
| composite steel                   | 合成鋼        |
| composition                       | 組成；成份      |
| composition board                 | 複合板；組成板    |
| composition brick                 | [普通]建築磚    |
| composition modulation wavelength | 成分調變波長     |
| compound                          | 化合物        |
| compound compact                  | 混合粉胚       |
| compound die                      | 複[合]模      |
| compound glass                    | 複合玻璃       |
| compound mill                     | 複合磨        |
| compound rolls                    | 複[式]軋[軋]機  |
| compound semiconductor            | 化合物半導體     |
| compounding                       | 配料         |
| compounding extruder              | 配料擠壓機      |
| compreg                           | 膠壓木材       |
| compressed hydrogen               | 壓縮氫氣       |
| compressed-air agitator           | 壓縮空氣攪動機    |

|                                     |              |
|-------------------------------------|--------------|
| compressibility                     | 可壓縮性         |
| compression                         | 壓縮           |
| compression bending                 | 壓縮彎曲         |
| compression fiber structure         | 壓縮纖維組織       |
| compression forming                 | 壓縮成形         |
| compression mold                    | 壓縮模          |
| compression molding                 | 壓縮模製；壓縮造模；壓鑄 |
| compression moulding                | 壓縮模製；壓縮造模；壓鑄 |
| compression ratio                   | 壓縮比          |
| compression set                     | 壓縮組件         |
| compression sintering               | 壓縮燒結         |
| compression test                    | 壓縮試驗         |
| compression zone                    | 壓縮帶域         |
| compression-crimped yarn            | 壓鬆紗          |
| compressive load                    | 壓縮負荷         |
| compressive strain                  | 壓縮應變         |
| compressive strength                | 抗壓強度         |
| compressive stress                  | 壓縮應力         |
| Compton scattering                  | 康普頓散射        |
| computer generated hologram (CGH)   | 電腦建構全息圖      |
| concentrate                         | 精砂；濃縮物       |
| concentration                       | 富集；精選；濃縮；濃度  |
| concentration cell                  | 濃淡電池         |
| concentration cell corrosion        | 濃淡電池腐蝕       |
| concentration distribution          | 濃度分佈         |
| concentration galvanic cell         | 濃度加凡尼電池      |
| concentration gradient              | 濃度傾差；濃度梯度    |
| concentration gradient distribution | 濃度梯度分佈       |
| concentration method                | 濃度法          |
| concentration polarization          | 濃度極化         |

|   |                     |
|---|---------------------|
| concentration polarization curve        | 濃度極化曲線              |
| concentration-dependent property        | 濃度依存性質              |
| concentration-overvoltage               | 濃度過電壓               |
| concentric hemispherical analyzer (CHA) | 同心半球分析儀 { 電子能量分析器 } |
| concentric-cylinder device              | 同心圓筒裝置              |
| concentric-cylinder rheometer           | 同心圓筒流變計             |
| conchoidal marking                      | 平行曲線記號；蛤殼紋 { 材料疲勞 } |
| concrete                                | 混凝土                 |
| concrete aggregate                      | 混凝土骨材               |
| concrete block                          | 混凝土塊                |
| concurrent heating                      | 併熱                  |
| condensate well                         | 凝結[油氣]井             |
| condensation                            | 凝結                  |
| condensation coefficient                | 冷凝係數                |
| condensation mechanism                  | 縮合機制                |
| condensation polymer                    | 縮合聚合物               |
| condensation polymerization             | 縮合聚合[作用]            |
| condensation resin                      | 縮合樹脂                |
| condensed phase electrolytic process    | 凝態相電解製程             |
| condenser                               | 凝結器；電容器             |
| condenser foil                          | 電容器箔                |
| conditioning time                       | 調整時間                |
| conditioning zone                       | 調整帶                 |
| conductance                             | 傳導性                 |
| conducting membrane                     | 傳導透膜                |
| conducting path                         | 傳導路徑                |
| conducting polymer                      | 導電高分子               |
| conduction                              | 傳導                  |
| conduction band                         | 導電帶；傳導帶             |
| conduction electron                     | 導電電子                |
| conduction heat losses                  | 傳導熱損失               |

|                                  |                    |
|----------------------------------|--------------------|
| conduction heating               | 傳導加熱               |
| conductive glass                 | 導電玻璃               |
| conductive polymer               | 導電高分子              |
| conductivity                     | 傳導性；傳導率            |
| conductor                        | 導體                 |
| cone                             | 錐形體；圓錐形；圓錐體        |
| cone and plate rheometer         | 錐板流變計              |
| cone crusher                     | 錐[形][軋]碎機          |
| cone equivalent                  | 示溫錐當值              |
| cone mandrel                     | 錐形心軸               |
| cone wheel                       | 錐形砂輪               |
| cone-screen test                 | 錐篩試驗               |
| configuration                    | 型態；組態；配置；輪廓 { 地形 } |
| configurational entropy          | 組態熵                |
| configurational infrared band    | 組態紅外線譜帶            |
| configurational interaction      | 組態交互作用             |
| confined Stark effect            | 侷限史塔克效應            |
| confinement                      | 侷限                 |
| confocal fluorescence microscope | 共軛焦螢光顯微鏡           |
| conformation                     | 構形                 |
| conformational infrared band     | 構形紅外線譜帶            |
| conglomeration                   | 塊集                 |
| congruent compound               | 合熔化合物              |
| congruent melting                | 合熔                 |
| congruent transformation         | 相合轉變；相合變態          |
| congruently melting compound     | 合熔化合物              |
| conical ball mill                | 錐形球磨機              |
| conical refiner                  | 錐形精製機              |
| conjugate solution               | 共軛溶液               |
| conjugated diene                 | 共軛二烯               |
| conjugated diene polymer         | 共軛二烯聚合物            |

|                               |                   |
|-------------------------------|-------------------|
| conjugated polymer            | 共軛聚合物             |
| connectin                     | 聯結蛋白              |
| connecting canal              | 連接槽               |
| conservative motion           | 守恆運動              |
| consisten meter               | 稠度[測定]儀           |
| consistency                   | 稠度                |
| consistometer                 | 稠度計               |
| consolidated nanostructure    | 固結奈米結構            |
| constant current mode         | 定電流模式 { 掃描探針顯微鏡 } |
| constant force mode           | 等力模式 { 掃描力顯微鏡 }   |
| constant height mode          | 等高模式 { 掃描探針顯微鏡 }  |
| constant load test            | 恆定負荷試驗            |
| constant volt transformer     | 恆電壓變壓器            |
| constant water content theory | 定水量理論             |
| Constantan                    | 康史登銅 { 銅鎳合金 }     |
| constant-deformation test     | 定變形試驗             |
| constant-load test            | 定載試驗              |
| constant-rate drying          | 定速乾燥              |
| constituent                   | 成份；組成物            |
| constitution                  | 組成                |
| constitutional diagram        | 組成圖；平衡圖           |
| constitutional steel          | 構造用鋼              |
| constitutional supercooling   | 組成過冷              |
| constitutive equation         | 組成方程式             |
| construction hierarchy        | 結構階層；建構層次         |
| construction material         | 結構材料              |
| consumable electrode          | 消耗性電極             |
| contact adhesive              | 接觸黏合劑             |
| contact angle                 | 接觸角               |
| contact angle measurement     | 接觸角測量             |
| contact cement                | 接觸膠合劑             |

|   |                       |
|---|-----------------------|
| contact corrosion                                       | 接觸腐蝕                  |
| contact image sensor (CIS)                              | 接觸型影像感測器              |
| contact lens  | 隱形眼鏡                  |
| contact mask  | 接觸型遮罩                 |
| contact material  | 接點材料                  |
| contact mode  | 接觸模式                  |
| contact molding   | 接觸模製                  |
| contact printing  | 接觸型印刷；接觸式印刷           |
| contact profilometry                                    | 接觸式輪廓術 { 表面粗度量測 }     |
| contact zone  | 接觸帶                   |
| contaminant   | 污染物；污染劑               |
| contemporary cell                                       | 同代細胞                  |
| continental die   | 樣板模                   |
| continou furnace  | 連續式爐                  |
| continuous annealing                                    | 連續退火                  |
| continuous annealing furnace                            | 連續退火爐                 |
| continuous casting                                      | 連續鑄造法；連續鑄造            |
| continuous cooling transformation (CCT)                 | 連續冷卻轉變；連續冷卻變態         |
| continuous fiber composite                              | 連續纖維複材                |
| continuous flow hydrothermal process                    | 連續流動式水熱製程             |
| continuous furnace                                      | 連續爐                   |
| continuous kiln   | 連續窯                   |
| continuous mill   | 連續軋機；連座軋機             |
| continuous phase  | 連續相                   |
| continuous precipitation                                | 連續析出                  |
| continuous rolling                                      | 連續軋軋                  |
| continuous tapping                                      | 連續出鐵                  |
| continuous vertical retort                              | 連續豎甑                  |
| continuous wave laser                                   | 連續波雷射                 |
| continuous-cooling transformation diagram (CCT diagram) | 連續冷卻轉變圖；連續冷卻變態圖；CCT 圖 |
| continuous-pour process                                 | 連續澆鑄法                 |

|  |                        |
|--|------------------------|
| continuous-strand furnace                      | 連續迴式爐                  |
| contour hardening                              | 輪廓硬化                   |
| contour map                                    | 等位線圖                   |
| contour roll                                   | 型輥                     |
| contour roll forming                           | 型輥成形                   |
| contracted $\gamma$ -field                     | 狹縮 $\gamma$ 區 { 平衡圖用 } |
| contraction                                    | 收縮                     |
| contraction allowance                          | 收縮裕度；收縮容差              |
| contraction crack                              | 縮裂                     |
| contraction distortion                         | 收縮畸變                   |
| contraction of area                            | 斷面收縮                   |
| contraflow                                     | 反流                     |
| contrast agent                                 | 對比劑                    |
| contrast ratio                                 | 對比值                    |
| contrast transfer function (CTF)               | 對比轉移函數                 |
| control panel                                  | 控制板                    |
| controlled atmosphere                          | 控制爐氣                   |
| controlled cooling                             | 控制冷卻                   |
| controlled drug delivery                       | 藥物制放                   |
| controlled quenching                           | 控制淬火                   |
| controlled release                             | 控制釋放                   |
| controlled thermal severity test (C.T.S. test) | 受控熱變試驗                 |
| convection current                             | 對流                     |
| convective heat transfer                       | 對流熱傳遞                  |
| convective-like transport                      | 似對流輸送                  |
| convergent beam electron diffraction (CBED)    | 聚束電子繞射                 |
| converse piezoelectric effect                  | 逆壓電效應                  |
| conversion                                     | 轉化[作用]                 |
| conversion coating                             | 轉化塗佈；轉化覆層；轉化鍍層         |
| conversion curve                               | 轉化曲線                   |
| conversion element                             | 轉換要素                   |

|   |                |                                      |           |
|---|----------------|--------------------------------------|-----------|
| conversion factor                             | 轉換因數           | coordination polymer                 | 配位聚合物     |
| conversion factor                             | 轉換因子           | coordination polymerization          | 配位聚合      |
| converter                                     | 轉爐；轉化器         | coordination shell                   | 配位殼層      |
| converting                                    | 轉化             | coordinative bond                    | 配位鍵       |
| conveyer furnace                              | 輸[送]帶爐         | Copaiba                              | 苦配巴油      |
| conveyor belt                                 | 輸送帶            | cope                                 | 上[砂]箱     |
| convolute-tube winding                        | 回旋管纏繞          | copoly(ester-carbonate)              | 共聚酯-碳酸酯   |
| convolution theorem<br>{ Fourier transforms } | 卷積理論 { 傅利葉轉換 } | copolycarbonate                      | 共聚碳酸酯     |
| coolant                                       | 冷卻劑            | copolyester                          | 共聚酯       |
| cooler  | 冷卻器            | copolymer                            | 共聚物       |
| cooling                                       | 冷卻             | copolymer composition                | 共聚物組成     |
| cooling arch                                  | 冷卻拱            | copolymerization                     | 共聚合反應     |
| cooling curve                                 | 冷卻曲線           | copolyurea                           | 共聚脲       |
| cooling fin                                   | 散熱片            | copper (Cu)                          | 銅         |
| cooling medium                                | 冷媒             | copper 8-quinolinolate               | 8-喹啉銅     |
| cooling rate                                  | 冷卻速率           | copper chloride                      | 銅氯化物      |
| cooling speed                                 | 冷卻速率           | Copper Development Association (CDA) | 銅業發展協會    |
| cooling stress                                | 冷卻應力           | copper enamel                        | 銅胎琺瑯；銅胎搪瓷 |
| cooling system                                | 冷卻系統           | copper head                          | 銅斑        |
| cooling zone                                  | 冷卻帶            | copper matte                         | 冰銅        |
| Cooper channel                                | 庫柏通道           | copper number                        | 銅值        |
| Cooper pair                                   | 古柏對；古柏偶        | copper red                           | 銅紅        |
| Cooper pair-breaking                          | 庫柏偶斷           | copper salt                          | 銅鹽        |
| coordinate bonding                            | 配位鍵            | copper soap                          | 銅皂        |
| coordinate covalent bond                      | 配位共價鍵          | copper-amine complex                 | 銅胺錯合體     |
| coordinate gradient                           | 配位梯度           | copper-beryllium alloy               | 銅鈹合金；鈹銅合金 |
| coordinate measuring machine (CMM)            | 座標量測儀          | copper-cadmium-zirconium electrode   | 銅鎘銦電極棒    |
| coordinate polymer                            | 配位聚合物          | copper-clad laminate                 | 包銅層板      |
| coordinate polymerization                     | 配位聚合反應         | copper-clad material                 | 包銅材料      |
| coordinated architecture                      | 配位結構           | copper-plated brass                  | 鍍銅黃銅      |
| coordination center                           | 配位中心           | copper-tin bronze                    | 錫青銅；青銅    |
| coordination number                           | 配位數；共位數        | coprecipitation                      | 共沉        |
| coordination number                           | 配位數            | coral red                            | 珊瑚紅       |

|                            |                      |
|----------------------------|----------------------|
| cord                       | 筋痕                   |
| cordage fiber              | 纜索纖維                 |
| cordierite                 | 堇青石                  |
| Cordite                    | 柯代炸藥                 |
| core                       | 心型；砂心；核心 { 原子能 }；岩心  |
| core binder                | 心型黏料；砂心膠             |
| core boring                | 鑽心                   |
| core box                   | 砂心盒                  |
| core compound              | 砂心黏結劑                |
| core dressing              | 砂心塗料                 |
| core drier                 | 砂心烘托板；砂心烘乾爐          |
| core knockout machine      | 砂心潰砂機                |
| core level shift           | 核能階偏移                |
| core loss                  | 鐵損 { 磁 }；核損 { 電子能階 } |
| core maker                 | 砂心工                  |
| core mud                   | 砂心泥                  |
| core oil                   | 砂心油                  |
| core paste                 | 砂心黏糊                 |
| core plate                 | 鐵心片                  |
| core print                 | 心型端承；砂心頭             |
| core refining              | 心部晶粒細化               |
| core sand                  | 砂心砂；心型砂              |
| core sand mixer            | 砂心砂混合機               |
| core shell heterostructure | 核殼層異質結構              |
| core shell quantum dot     | 核殼層量子點               |
| core structure             | 核狀組織                 |
| core wash                  | 砂心塗漿                 |
| cored carbon               | 夾心碳條                 |
| cored electrode            | 夾心鐳條；夾心熔接條           |
| coreless induction furnace | 無心感應電爐               |
| coring                     | 內偏析                  |
| cork                       | 軟木；軟木塞               |

|                                  |                  |
|----------------------------------|------------------|
| cork tile                        | 軟木磚              |
| corkboard                        | 軟木板              |
| cornea                           | 角膜               |
| corneal implant                  | 角膜植入物            |
| coronary artery stent            | 冠狀動脈支架           |
| corpuscle                        | 微粒               |
| corpuscular property             | 微粒性              |
| corpuscular radiation            | 微粒輻射             |
| correlation function             | 相關函數             |
| correlation time                 | 相關時間             |
| corrodibility                    | 可腐蝕性             |
| corrosion                        | 腐蝕；侵蝕            |
| corrosion cell                   | 腐蝕電池             |
| corrosion characteristics        | 腐蝕特性             |
| corrosion current                | 腐蝕電流             |
| corrosion current density        | 腐蝕電流密度           |
| corrosion embrittlement          | 腐蝕脆化             |
| corrosion engineering            | 腐蝕工程             |
| corrosion environment            | 腐蝕環境             |
| corrosion fatigue                | 腐蝕疲勞             |
| corrosion fatigue limit          | 腐蝕疲勞限            |
| corrosion inhibitor              | 腐蝕抑制劑            |
| corrosion penetration rate (CPR) | 腐蝕滲透速率           |
| corrosion pit                    | 蝕孔；腐蝕孔洞          |
| corrosion potential              | 腐蝕電位             |
| corrosion prevention             | 防蝕               |
| corrosion rate                   | 腐蝕率              |
| corrosion rate                   | 腐蝕速率             |
| corrosion resistance             | 耐蝕性；抗蝕力          |
| corrosion testing                | 腐蝕試驗             |
| corrosion-erosion                | 沖蝕腐蝕             |
| corrugated sheet glass           | 波形玻璃             |
| Corson alloy                     | 卡遜合金 { 含鎳矽之銅合金 } |

|                                      |               |
|--------------------------------------|---------------|
| Corten steel                         | 高登耐候鋼         |
| cortex                               | 表皮層           |
| cortical bone                        | 皮質骨；緻密骨       |
| corundum                             | 剛玉；金剛砂；金剛石；剛石 |
| cosmetic                             | 化妝品           |
| cosolvent                            | 共溶劑           |
| costabilizer                         | 共安定劑          |
| costellising                         | 磷酸防蝕法         |
| cotton cellulose                     | 棉纖維素          |
| cotton mat                           | 棉紗蓆           |
| Cottrell atmosphere                  | 柯瑞爾氣氛         |
| Cottrell effect                      | 柯瑞爾效應         |
| Cottrell electrostatic precipitation | 柯瑞爾靜電析出       |
| Cottrell transient technique         | 柯瑞爾暫態技術       |
| Cottrell-Lomer dislocation locking   | 柯瑞爾-羅氏差排楔鎖    |
| coulomb                              | 庫倫            |
| Coulomb blockade                     | 庫侖障礙；庫侖阻障     |
| Coulomb energy                       | 庫侖能           |
| Coulomb staircase                    | 庫倫階梯          |
| coumarone                            | 薰草啉           |
| coumarone resin                      | 薰草啉樹脂         |
| coumarone-indene resin               | 薰草啉-茚樹脂       |
| counterblow hammer                   | 對擊鎚           |
| counter-current decantation          | 逆流傾析          |
| countercurrent dialysis              | 逆流透析          |
| counterion                           | 相對離子          |
| counterion-polyion interaction       | 相對離子-聚合離子交互作用 |
| counterlocked die                    | 對鎖模           |
| counterpart                          | 對應體           |
| counterrotation dual-screw extruder  | 對旋雙螺擠壓機       |
| couple action                        | 偶合作用          |

|                            |               |
|----------------------------|---------------|
| coupled quantum dot        | 耦合量子點         |
| coupled-dipoles method     | 耦合雙極法         |
| coupling                   | 耦合            |
| coupling agent             | 耦合劑           |
| coupling component         | 耦合成分          |
| coupling distribution      | 耦合分佈          |
| coupling reaction          | 耦合反應          |
| course                     | 層             |
| covalent bond              | 共價鍵           |
| covalent bonding           | 共價鍵結；共價結合     |
| covalent crosslink         | 共價交聯          |
| covalent crystal           | 共價晶體          |
| covalent-metallitivity     | 共價化金屬鍵；共價化金屬性 |
| cove skirting              | 內轉角磚          |
| cover coat                 | 面塗            |
| cover glass                | 蓋玻璃           |
| coverage                   | 被蓋率           |
| covering power             | 遮蓋力           |
| COX-2 inhibitor            | 第二型環氧酶抑制劑     |
| crack                      | 裂紋；裂縫；裂痕      |
| crack arrest temperature   | 止裂溫度          |
| crack arrestter            | 止裂措施；止裂物      |
| crack bridging             | 裂縫架橋          |
| crack configuration        | 裂縫形態          |
| crack critical velocity    | 裂縫[成長]臨界速率    |
| crack deflection           | 裂縫偏向          |
| crack initiation           | 裂縫形成          |
| crack length               | 裂縫長度          |
| crack monitoring system    | 裂縫偵測系統        |
| crack propagating          | 裂紋延伸          |
| crack propagation          | 裂紋擴張          |
| crack surface displacement | 裂縫表面位移        |
| crack test                 | 裂痕試驗          |

|                        |                    |
|------------------------|--------------------|
| cracking               | 裂開                 |
| crackle                | 碎紋                 |
| crackle ware           | 碎紋瓷                |
| cranak process         | 鉻酸鹽處理 { 用於鋅鎂製品 }   |
| crank                  | 墊餅；撐架              |
| crank press            | 曲柄壓機               |
| cratering              | 鐳焰；傾面 { 刀具 }；凹蝕；泡麻 |
| crawling               | 釉縮                 |
| crazing                | 網狀裂紋；龜裂；細紋         |
| cream time             | 乳稠時間               |
| crease recovery        | 回皺                 |
| crease resistance      | 耐皺性                |
| crease retention       | 保皺性                |
| creaseproofing         | 防皺                 |
| creaseproofing agent   | 防皺劑                |
| creasing               | 折皺                 |
| creasy surface         | 皺痕面                |
| creep                  | 潛變                 |
| creep behavior         | 潛變行為               |
| creep compliance       | 潛變柔量               |
| creep curve            | 潛變曲線               |
| creep embrittlement    | 潛變脆化               |
| creep forming          | 潛變成形               |
| creep fracture         | 潛變破裂；潛變斷口          |
| creep limit            | 潛變限                |
| creep modulus          | 潛變模數               |
| creep rate             | 潛變率                |
| creep recovery         | 潛變回復               |
| creep rupture          | 潛變破壞               |
| creep rupture strength | 潛變驟斷強度             |
| creep strength         | 潛變強度               |
| creep test             | 潛變試驗               |
| creepage               | 潛變率                |

|                                |                      |
|--------------------------------|----------------------|
| creep-rupture                  | 潛變破裂                 |
| creosote                       | 雜酚油                  |
| crepe effect                   | 皺紗效應                 |
| crepe paper                    | 皺紋紙                  |
| crepe rubber                   | 皺橡膠                  |
| cresol                         | 甲酚                   |
| creylic acid                   | 甲酚酸                  |
| crevice corrosion              | 裂隙腐蝕；縫隙腐蝕；微間隙腐蝕；罅隙腐蝕 |
| crimping                       | 捲邊；起皺                |
| crimping glass                 | 摺縐玻璃                 |
| crystalite                     | 白矽石                  |
| critical aging                 | 臨界時效                 |
| critical annealing             | 臨界退火                 |
| critical anodic current        | 陽極臨界電流               |
| critical chain length          | 臨界鏈長                 |
| critical change                | 臨界變化                 |
| critical consolute temperature | 臨界共溶溫度               |
| critical cooling rate          | 臨界冷速                 |
| critical cooling speed         | 臨界冷速                 |
| critical cooling velocity      | 臨界冷速                 |
| critical current density       | 臨界電流密度               |
| critical deformation           | 臨界變形                 |
| critical density               | 臨界密度                 |
| critical dispersion            | 臨界播散；臨界播散度           |
| critical elongation            | 臨界伸長                 |
| critical elongation test       | 臨界伸長試驗               |
| critical fiber length          | 臨界纖維長度               |
| critical field                 | 臨界電場                 |
| critical field behavior        | 臨界場行為                |
| critical frequency             | 臨界頻率                 |
| critical hardness              | 臨界硬度                 |
| critical hardening             | 臨界硬化                 |
| critical humidity              | 臨界溼度                 |



|                                       |                |
|---------------------------------------|----------------|
| critical ignition temperature         | 臨界引燃溫度；臨界點燃溫度  |
| critical mass                         | 臨界質量           |
| critical micelle concentration        | 臨界微胞濃度         |
| critical moisture content             | 臨界溼氣含量         |
| critical opalescence                  | 臨界蛋白光          |
| critical pigment volume concentration | 臨界顏料體積濃度       |
| critical point                        | 臨界點            |
| critical point dryer (CPD)            | 臨界點乾燥機         |
| critical pressure                     | 臨界壓力           |
| critical rake angle                   | 臨界傾角           |
| critical range                        | 臨界範圍           |
| critical relative humidity            | 臨界相對溼度         |
| critical resolved shear stress (CRSS) | 臨界分解剪應力        |
| critical shear rate                   | 臨界剪切速率         |
| critical shear stress                 | 臨界剪應力          |
| critical solidification rate          | 臨界凝固速率         |
| critical solution temperature         | 臨界溶解溫度         |
| critical speed                        | 臨界速率           |
| critical strain                       | 臨界應變           |
| critical stress                       | 臨界應力           |
| critical surface tension              | 臨界表面張力         |
| critical temperature                  | 臨界溫度           |
| critical volume fraction              | 臨界容積分率         |
| critical wave number                  | 臨界波數           |
| critical wavelength                   | 臨界波長           |
| critical zone                         | 臨界區域           |
| criticality                           | 臨界條件 { 核能 }    |
| crizzle                               | 細紋             |
| crocidolite                           | 青石棉            |
| croloy                                | 可銘鉬 { 一種低銘鉬鋼 } |
| cronic croning process                | 殼模造模法          |

|                             |               |
|-----------------------------|---------------|
| croning process (C-process) | 克氏造模法 { 殼模法 } |
| crop                        | 料頭；[鋼錠]切頭     |
| cropping                    | 切斷            |
| cross polarization          | 交叉極化          |
| cross slip                  | 交叉滑動          |
| cross strain                | 截面應變          |
| cross-bend test             | 橫向彎曲試驗        |
| cross-breaking strength     | 橫斷強度          |
| cross-country mill          | 梯式軋機          |
| cross-fired furnace         | 橫焰爐           |
| crosshead                   | 十字頭           |
| crosslink                   | 交聯            |
| crosslink density           | 交聯密度          |
| crosslink scission          | 交聯剪切          |
| crosslink structure         | 交聯結構          |
| crosslink yield             | 交聯程度          |
| crosslinkage                | 交聯            |
| crosslinked polyester       | 交聯聚酯          |
| crosslinked polymer         | 交聯聚合物         |
| crosslinked rayon           | 交聯嫻榮          |
| crosslinking                | 交聯化           |
| crosslinking agent          | 交聯劑           |
| crosslinking reactant       | 交聯反應物         |
| cross-transfer coefficient  | 交叉轉移係數        |
| crowbar                     | 撬棍            |
| crowding barrow             | 手推車           |
| crowdion diffusion          | 密集離子擴散        |
| crown                       | 窯頂；隆起；[架]頂    |
| crown brick                 | 拱頂磚；窯頂磚       |
| crown glass                 | 冕玻璃           |
| crucible                    | 坩堝            |
| crucible cast steel         | 坩堝鑄鋼          |
| crucible furnace            | 坩堝爐           |

|                          |                 |
|--------------------------|-----------------|
| crucible process         | 坩堝[煉鋼]法；坩堝[熔解]法 |
| crucible steel           | 坩堝鋼             |
| crud                     | 腐蝕污泥            |
| crushed stone            | 碎石              |
| crusher                  | 軋碎機；壓碎機         |
| crusher hammer           | 鎚碎機             |
| crushing                 | 壓碎              |
| crushing roll            | 軋碎機             |
| crushing strength        | 抗碎強度            |
| crustacean shell         | 甲殼類外殼           |
| cryo-electron microscopy | 低溫電子顯微術；冷凍電子顯微術 |
| cryogen                  | 低溫劑；凍劑          |
| cryogenic adhesive       | 冷凍黏著劑           |
| cryogenic insulation     | 冷凍絕緣            |
| cryogenic liquid         | 冷凍液體            |
| cryogenic property       | 冷凍性質            |
| cryogenic temperature    | 冷凍溫度            |
| cryogenics               | 低溫現象；低溫學；冷凍工程學  |
| cryohydrate              | 低溶冰鹽合晶；冰鹽寒劑     |
| cryohydric point         | 冰晶點；冰凝點；全晶點     |
| cryolite                 | 冰晶石             |
| cryometry                | 冷凍量測學           |
| cryophorus               | 凝冰晶             |
| cryoscopic method        | 冰點降低法           |
| cryoscopy                | 冷凍測定法；凝固點下降法    |
| cryosorption pump        | 低溫吸附泵；低溫吸附幫浦    |
| cryostat                 | 恆冷器；恆冷室         |
| cryothermal treatment    | 深冷處理            |
| crystal                  | 晶體；結晶           |
| crystal analysis         | 晶體分析            |
| crystal analysis method  | 結晶分析法           |

|                             |           |
|-----------------------------|-----------|
| crystal axes                | 晶軸        |
| crystal base                | 晶基        |
| crystal boundary            | 晶界；晶粒邊界   |
| crystal boundary etching    | 晶界浸蝕      |
| crystal class               | 晶類        |
| crystal cup                 | 晶[體]座     |
| crystal diffraction         | 晶體繞射      |
| crystal edge                | 晶稜        |
| crystal field disorder      | 晶場[致]無序   |
| crystal field interaction   | 晶場交互作用    |
| crystal glass               | 水晶玻璃      |
| crystal grain               | 晶粒        |
| crystal grain growth        | 晶粒成長      |
| crystal grating             | 晶柵        |
| crystal growth              | 結晶成長      |
| crystal growth              | 晶體成長      |
| crystal habit               | 晶體慣態      |
| crystal lattice             | 結晶格子      |
| crystal lattice parameter   | 結晶格子參數    |
| crystal magnetic anisotropy | 結晶磁異向性    |
| crystal nucleation          | 晶體成核      |
| crystal nucleus             | 晶核        |
| crystal optics              | 晶體光學      |
| crystal orientation         | 晶軸向；晶體定向  |
| crystal parameter           | 晶體參數      |
| crystal plane               | 晶面        |
| crystal pulling             | 拉單晶；拉晶生長法 |
| crystal recovery            | 結晶回復      |
| crystal segregation         | 晶體偏析      |
| crystal stability           | 晶體安定性     |
| crystal structure           | 晶體結構      |
| crystal symmetry            | 晶體對稱      |
| crystal system              | 晶系        |
| crystal texture             | 晶體組織      |

|                                      |             |
|--------------------------------------|-------------|
| crystal translation vector           | 結晶平移向量      |
| crystal zone                         | 結晶帶         |
| crystalline copolymer                | 晶性共聚物       |
| crystalline fibril                   | 晶性原纖維       |
| crystalline field                    | 晶體內電場；晶體內磁場 |
| crystalline form                     | 晶形；結晶形狀     |
| crystalline fracture                 | 晶粒破壞；晶狀斷口   |
| crystalline germ                     | 結晶核         |
| crystalline glaze                    | 結晶釉         |
| crystalline imperfection             | 結晶缺陷        |
| crystalline material                 | 結晶材料        |
| crystalline nucleus                  | 結晶核         |
| crystalline order                    | 結晶規則        |
| crystalline polymer                  | 結晶型聚合物      |
| crystalline quartz                   | 結晶型石英       |
| crystalline state                    | [結]晶[狀]態    |
| crystalline structure                | 結晶組織        |
| crystalline thermoplastics           | 結晶型熱塑塑膠     |
| crystallinity                        | 結晶性；晶質；結晶質  |
| crystallinity density                | 結晶密度        |
| crystallite                          | 微晶          |
| crystallite birefringence            | 微晶雙折射       |
| crystallite dimensions               | 微晶大小        |
| crystallite orientation              | 微晶定向        |
| crystallite orientation distribution | 微晶定向分佈      |
| crystallite-size distribution        | 微晶大小分佈      |
| crystallizability                    | 可結晶性        |
| crystallization                      | 結晶化；結晶作用    |
| crystallization parameter            | 結晶參數        |
| crystallization path                 | 結晶化路徑       |
| crystallization rate                 | 結晶速率        |
| crystallization temperature          | 結晶溫度        |

|  |               |
|--|---------------|
| crystallization theory                   | 結晶理論          |
| crystallization thermogram               | 結晶溫度記錄圖       |
| crystallization-inhibited rubber         | 抑制結晶化橡膠       |
| crystallographic data                    | 結晶學數據         |
| crystallographic plane                   | 結晶面           |
| crystallographic point coordinate        | 結晶點座標         |
| crystallography                          | 結晶學           |
| crystalloid                              | 擬晶體；類晶體       |
| crystallo-luminescence                   | 結晶發光          |
| CsCl crystal structure                   | 氯化銫晶體結構       |
| c-stage                                  | c-階段          |
| cube texture                             | 立方織構；立方紋理     |
| cube-on-edge grain (COE grain)           | 立方體對邊晶粒       |
| cubic close-packed structure             | 立方密集結構；立方緊密結構 |
| cubic crystal                            | 立方結晶          |
| cubic expansion coefficient              | 體膨脹係數         |
| cubic plane                              | 立方[晶]面        |
| cubic system                             | 立方[晶]系        |
| cuboctahedron structure                  | 立方八面體結構       |
| cuene                                    | 銅乙二胺          |
| cullet                                   | 玻璃屑           |
| culture                                  | 培養            |
| cumulative damage                        | 累積損傷          |
| cumulative molecular-weight distribution | 累積分子量分佈       |
| cunico                                   | 銅鎳鈷 { 磁性合金 }  |
| cunife                                   | 銅鎳鐵 { 磁性合金 }  |
| cup and bob rheometer                    | 杯錘流變計         |
| cup fracture                             | 杯形破裂          |
| cup gun                                  | 杯式噴槍          |
| cup insulator                            | 杯形絕緣體         |
| cup wheel                                | 杯形磨輪          |

|                                  |                   |
|----------------------------------|-------------------|
| cupel                            | 烤鉢                |
| cupellation                      | 灰吹法               |
| cupola                           | 化鐵爐；熔鐵爐；冲天爐       |
| cupola malleable iron            | 熔鐵爐級可鍛鑄鐵；熔鐵爐級展性鑄鐵 |
| cupping test                     | 凹形試驗；凹壓試驗         |
| cuppy wire                       | [箭頭狀]裂紋線材         |
| cupralum                         | 包鉛銅               |
| cuprammonium                     | 銅銨                |
| cupric ion-nitrogen base complex | 銅離子氮基錯合體          |
| cupriethylenediamine             | 銅乙二胺              |
| cuprite                          | 赤銅礦               |
| cupro-nickel                     | 銅鎳                |
| curb bend                        | 外轉角磚              |
| cure characteristics             | 熟化特性              |
| cure rate                        | 熟化速率              |
| cure shellac                     | 熟化蟲膠              |
| cure time                        | 熟化時間              |
| curemeter                        | 熟化計               |
| Curie                            | 居里                |
| curie (Ci)                       | 居里 { 放射性強度單位 }    |
| Curie law                        | 居禮定律              |
| Curie point                      | 居里點               |
| Curie temperature                | 居里溫度              |
| Curie temperature                | 居禮溫度              |
| Curie-Weiss law                  | 居禮-魏斯定律           |
| curing                           | 硬化；熟化；固化；養護       |
| curing agent                     | 固化劑；硬化劑；養護劑       |
| curing compound                  | 固化劑；硬化劑；養護劑       |
| curing oven                      | 熟化烘箱              |
| curing period                    | 固化時間              |
| curing reaction                  | 熟化反應              |

|                                |                     |
|--------------------------------|---------------------|
| curium (Cm)                    | 鍇                   |
| curling                        | 捲曲；捲邊               |
| curpic oleate                  | 油酸銅                 |
| current collection             | 電流收集                |
| current density                | 電流密度                |
| current efficiency             | 電流效率                |
| current interrupt test         | 電流中斷測試              |
| current pulse relaxation (CPR) | 電流脈衝鬆弛              |
| curtain arch                   | 簾拱                  |
| curtain coating                | 簾狀塗覆；簾狀塗佈；簾狀塗膜      |
| curtain wall                   | 簾牆                  |
| curved optical fiber           | 彎曲光纖維               |
| cushioning                     | 緩衝作用                |
| cushioning material            | 緩衝材料；墊料             |
| cusiloy                        | 古矽銅 { 一種含矽之銅合金 }    |
| cut depth                      | 切割深度                |
| cut flake                      | 割片                  |
| cut glass                      | 雕花玻璃                |
| cut off                        | 切斷                  |
| cut tooth depth                | 切齒深度                |
| Cutanit                        | 抗得耐 { 刀模具用堅硬燒結碳化物 } |
| cutout                         | 斷流器；截止；切除部份         |
| cutter                         | 切刀                  |
| cutting                        | 切削；切割               |
| cutting action                 | 切削作用                |
| cutting tool                   | 切割工具                |
| cutting tools                  | 割削工具                |
| cutting-off method             | 切斷法                 |
| cutting-off table              | 切坯台                 |
| cuttlefish process             | 墨魚骨模製造法 { 珠寶業用 }    |
| cyanidation                    | 氰化                  |
| cyanide                        | 氰化物                 |

|                                     |          |   |                |
|-------------------------------------|----------|---|----------------|
| cyanide copper                      | 氰化銅      | cyclic oligomer                           | 環狀寡聚體          |
| cyanide hardening                   | 氰化淬硬法    | cyclic polyacetal                         | 環聚縮醛           |
| cyanide ion                         | 氰離子      | cyclic polysiloxane                       | 環狀聚矽氧烷         |
| cyanide salt                        | 氰化鹽      | cyclic polysulfone                        | 環狀聚磺           |
| cyanide-bridged compound            | 氰化物架橋化合物 | cyclic silazane                           | 環狀矽氮烷          |
| cyaniding                           | 氰化處理     | cyclic stress                             | 循環應力 { 疲勞用 }   |
| cyanine dye                         | 花青染料     | cyclic sulfide group                      | 環硫團            |
| cyanite                             | 藍晶石      | cyclic urea                               | 環脲             |
| cianoalkylsilane                    | 氰烷基矽烷    | cyclic voltammetry (CV)                   | 循環伏安法          |
| cianoethylated poly (vinyl alcohol) | 氰乙化聚乙烯醇  | cyclic voltammogram                       | 循環伏安法          |
| cianoethylated wood                 | 氰乙化木材    | cycling and circulation degassing process | 反復循環去氣法        |
| cianoethylation                     | 氰乙化作用    | cyclization                               | 環化             |
| cianoehylated polyacrylonitrile     | 氰乙化聚丙烯腈  | cyclized rubber                           | 環化橡膠           |
| cianoethylated cellulose            | 氰乙化纖維素   | cyclo graph                               | 循環圖            |
| cianoethylated cotton               | 氰乙化棉     | cyclodextrin                              | 環糊精            |
| cianoethylated kraft paper          | 氰乙化牛皮紙   | cyclone                                   | 旋風器            |
| cianoethylated paper                | 氰乙基化紙    | cyclone dust catcher                      | 旋風集塵器          |
| cianoethylated polyamide            | 氰乙化聚醯胺   | cyclopolycondensation reaction            | 環狀聚縮反應         |
| cianoethylated silane               | 氰乙化矽烷    | cyclopolymerization                       | 環狀聚合反應         |
| cianoethylated starch               | 氰乙化澱粉    | cyclopropene                              | 環丙烯            |
| cyanogen (CN)                       | 氰        | cyclosiloxane                             | 環矽氧烷           |
| cyanogen polymer                    | 氰聚合物     | cyclotron                                 | 迴旋加速器          |
| cyclic acetal                       | 環狀縮醛     | cyclotron resonance                       | 迴旋共振           |
| cyclic amide                        | 環狀醯胺     | cyclic compound                           | 環狀化合物          |
| cyclic annealing                    | 反復退火     | cylindrical mirror analyzer (CMA)         | 柱面鏡分析儀         |
| cyclic carbonate                    | 環狀碳酸鹽    | cytapheresis                              | 血球分離術          |
| cyclic carbonate ester              | 環狀碳酸酯    | cytochrome c                              | 細胞色素 c         |
| cyclic ester                        | 環狀酯      | cytoskeleton                              | 細胞骨架           |
| cyclic heating method               | 循環加熱方法   | cytotoxicity                              | 細胞毒性           |
| cyclic ketone                       | 環狀酮      | Czochralski crystal pulling technique     | 柴可斯基單晶拉製法      |
| cyclic monomer                      | 環狀單體     | Czochralski method                        | 柴可斯基法 { 單晶成長 } |
| cyclic olefin                       | 環烯       |   |                |

## D

|                                 |  |
|---------------------------------|--|
| dacite                          | 石英安山石  |
| dairy bronze                    | 奶罐青銅 { 20%Ni · 8%Zn · 4%Pb · 4%Sn · 其餘為 Cu }         |
| Dalton's alloy                  | 道爾頓合金 { 一種易熔合金 · 含 60%Bi · 25%Pb · 15%Sn · 熔點 92°C } |
| damage line                     | [疲勞]破壞線  |
| damage ratio                    | [疲勞]損害比例   |
| Damascening                     | 達馬新法 { 熔接高低碳鋼而形成多層材料裝飾品之一種方法 }                       |
| Damaxine alloy                  | 大馬森合金 { 含 10%Sn 之青銅 }                                |
| Dammar                          | 達瑪脂  |
| Dammar gun                      | 達瑪膠  |
| damper                          | 風門   |
| damping capacity                | 制振能  |
| damping test                    | 制振試驗   |
| Dandelion metal                 | 鄧德奈金屬 { 含 18%Sb · 10%Sn · 其餘為 Pb 之軸承合金 }             |
| dangling bond                   | 懸鍵   |
| dapple                          | 斑紋   |
| Darcy's law                     | 達西定律   |
| dark axis { photoluminescence } | 暗軸 { 光致發光 }  |
| dark etching area               | 暗蝕刻區 ; 深蝕刻區  |
| dark exciton                    | 暗激子  |
| dark field                      | 暗視野  |
| dark field microscope           | 暗視場顯微鏡   |
| dark field microscopy           | 暗視野顯微法   |
| Darken's equation               | 達肯方程式 { 擴散用 }  |
| dart-drop testing               | 雙軸彎曲試驗   |
| dashpot                         | 緩衝筒  |
| data transmission methods       | 數據傳輸方法   |
| datolite                        | 矽鈣硼石   |

|                                  |                       |
|----------------------------------|-----------------------|
| daubing                          | [耐火砂]修補 ; 塗抹          |
| day tank                         | 日量熔槽                  |
| daylight                         | 淨距 { 壓機 }             |
| daylight fastness                | 日光耐度                  |
| De Broglie law                   | 德波格里定律 { 現代電子繞射技術基礎 } |
| de Broglie wave                  | 德布羅意波                 |
| de Broglie wavelength            | 德布羅意波長                |
| de Gennes damping factor         | 德堅內阻尼因子               |
| de Hass-van Alphen effect        | 德哈斯-凡阿芬效應             |
| deacetylated chitin              | 去乙醯幾丁質                |
| deacetylation                    | 去乙醯化[作用]              |
| deactivation                     | 去活化 ; 去活性化            |
| deactivator                      | 去活化劑                  |
| dead layer                       | 無效層 ; 死層              |
| dead plate                       | 靜板                    |
| dead soft cast iron              | 極軟鑄鐵                  |
| dead soft steel                  | 極軟鋼                   |
| dead-burned                      | 僵燒                    |
| dead-burned dolomite             | 僵燒白雲石                 |
| dead-burned magnesite            | 僵燒菱鎂石                 |
| deaeration                       | 除氣 ; 脫氣               |
| de-airing                        | 除氣                    |
| dealkalization                   | 脫鹼                    |
| de-aluminification               | 脫鋁作用 { 鋁青銅 }          |
| debiteuse                        | 浮標磚                   |
| debranching enzyme               | 去分支酶                  |
| deburring                        | 去毛邊 ; 去毛刺 ; 倒角        |
| Debye characteristic temperature | 戴比特性溫度                |
| Debye equation                   | 狄拜方程式                 |
| Debye temperature                | 狄拜溫度                  |
| Debye theory                     | 狄拜理論                  |
| Debye unit                       | 德拜單位                  |

|                                |              |
|--------------------------------|--------------|
| Debye-Scherrer camera          | 戴-薛氏照相機      |
| Debye-Scherrer equation        | 德拜-謝樂方程式     |
| Debye-Scherrer technique       | 戴-薛氏技術       |
| decahedron                     | 十面體          |
| decal                          | 印花           |
| decalcomania                   | 印花           |
| decalescence                   | 減輝           |
| decalescence point             | 減輝點          |
| decanning                      | 去套管          |
| decarboxylation                | 去羧基作用        |
| decarburization                | 脫碳           |
| decarburized depth             | 脫碳深度         |
| decarburized layer             | 脫碳層          |
| decarburized structure         | 脫碳組織         |
| decay                          | 衰變           |
| decay time                     | 衰變時間         |
| decibel                        | 分貝           |
| declining balance depreciation | 遞減餘額折舊       |
| decoherence                    | 去同調          |
| decoloration                   | 消色           |
| decolorizer                    | 去色劑；脫色劑      |
| decomposition                  | 分解           |
| decompression section          | 去壓部位         |
| decorating kiln                | 紅爐；彩燒窯       |
| decorative coating             | 裝飾護膜         |
| decorative concrete            | 裝飾混凝土        |
| decoring                       | 砂心清除         |
| decoupling                     | 去耦合          |
| decyl acrylate                 | 丙烯酸癸酯        |
| decyl alcohol (1-decanol)      | 癸醇           |
| de-electronation               | 去電子[作用]；氧化作用 |
| de-emulsification              | 解乳化          |
| de-enamelling                  | 去琺瑯          |

|                          |             |
|--------------------------|-------------|
| deep etch                | 深蝕          |
| deep forming             | 深成形         |
| deep hardening steel     | 深硬化鋼        |
| deep hole                | 深電洞         |
| deep-drawing             | 深衝；深度引長     |
| deep-drawing steel       | 深衝[用]鋼      |
| deep-submergence system  | 深浸系統        |
| deep-throat press        | 深喉壓機        |
| defect                   | 缺陷；瑕疵       |
| defect                   | 缺陷          |
| defect density           | 缺陷密度        |
| defect lattice           | 缺陷格子        |
| defect reaction equation | 缺陷反應方程式     |
| defect semiconductor     | 缺陷半導體       |
| defect structure         | 缺陷組織        |
| defective lattice model  | 缺陷晶格模型      |
| defibrator               | 纖維磨出機；熱磨機   |
| deflagration             | 爆燃 { 燃燒 }   |
| deflashing               | 去毛邊         |
| deflocculant             | 去凝劑；解凝劑；解膠劑 |
| deflocculation           | 解凝          |
| defoaming agent          | 去泡劑；消泡劑     |
| defocus                  | 離焦；去焦       |
| deformability            | 可變形性；可變形度   |
| deformable particle      | 可變形粒子       |
| deformation              | 變形          |
| deformation band         | 變形帶         |
| deformation eutectic     | 變形共晶        |
| deformation mechanism    | 變形機制        |
| deformation property     | 變形性質        |
| deformation rate         | 變形速率        |
| deformation structure    | 變形組織        |
| deformation temperature  | 變形溫度        |

|                                       |           |
|---------------------------------------|-----------|
| deformation texture                   | 變形織構      |
| deformation twin                      | 變形雙晶      |
| deformation velocity                  | 變形速度      |
| deformation-mechanism map             | 變形機構圖     |
| deformation-stress dependency         | 變形-應力依存性  |
| deformation-time dependency           | 變形-時間依存性  |
| deformed martensite                   | 變形麻田散體    |
| degas                                 | 脫氣        |
| degasification                        | 脫氣        |
| degassing                             | 放氣        |
| degassing flux                        | 脫氣熔劑      |
| degassing rate                        | 去氣率       |
| degaussing                            | 去磁        |
| degenerate four-wave mixing           | 退化四波混合    |
| degenerate impurity d-orbital         | 退化雜質 d 軌域 |
| degradable medical implant            | 降解性醫療植入物  |
| degradable polymer                    | 降解性聚合物    |
| degradable tissue engineered scaffold | 降解性組織工程支架 |
| degradation                           | 降解；劣化     |
| degradation of plastics               | 塑膠降解      |
| degradative process                   | 降解過程      |
| degreasing agent                      | 去油劑       |
| degree days                           | 日度差       |
| degree of branching                   | 分支度       |
| degree of crosslinking                | 交聯度       |
| degree of crystallinity               | 結晶度       |
| degree of cure                        | 硬化度       |
| degree of degradation                 | 降解度       |
| degree of fatigue                     | 疲勞[程]度    |
| degree of freedom                     | 自由度       |
| degree of hydration                   | 水合度       |

|   |            |
|---|------------|
| degree of isomerization                           | 異構度        |
| degree of isotacticity                            | 等立構度；同位立構度 |
| degree of orientation                             | 定向度        |
| degree of polymerization                          | 聚合度        |
| degree of saturation                              | 飽和度        |
| degree of substitution                            | 取代度        |
| dehardening                                       | 減硬         |
| dehydration                                       | 去水；脫水      |
| dehydration reaction                              | 脫水反應       |
| dehydrochlorination                               | 去氯化氫反應     |
| dehydrogenated resin                              | 去氫樹脂       |
| dehydrogenation                                   | 脫氫；去氫化反應   |
| dehydrogenation processes, hydrogen as by-product | 去氫步驟       |
| deionization                                      | 去離子作用      |
| dekatesarahedron                                  | 十四面體       |
| De-Lavaud process                                 | 德拉瓦[離心鑄管]法 |
| delay line  | 延遲線        |
| delayed elasticity                                | 延遲彈性       |
| delayed fracture                                  | 延遲破斷       |
| delayed quenching                                 | 延遲淬火       |
| delayed transformation                            | 延遲轉變；延遲變態  |
| delayed yield                                     | 延遲降伏       |
| delayed-tack adhesive                             | 遲固黏著劑      |
| deleterious substance                             | 有害物質       |
| Delft ware  | 德弗特陶器      |
| delocalization                                    | 去局域作用      |
| delta brass                                       | δ黃銅        |
| delta bronze                                      | δ青銅        |
| delta ferrite                                     | δ肥粒鐵       |
| delta iron  | δ鐵         |
| delta metal                                       | δ合金        |
| delta solid solution                              | δ固溶體       |
| delusterant                                       | 褪光劑        |



|                                 |               |
|---------------------------------|---------------|
| delustering                     | 褪光            |
| demagnetization                 | 去磁化；消磁曲線；去磁曲線 |
| demagnetization curve           | 消磁曲線；去磁曲線     |
| demagnetizer                    | 去磁器           |
| demand charges                  | 需量電費          |
| demand side management (DSM)    | 需求側管理         |
| denaturation                    | 變性            |
| dendralyst                      | 樹枝狀聚合物觸媒      |
| dendrimer                       | 樹枝狀聚合物        |
| dendrimer catalyst              | 樹枝狀聚合物觸媒      |
| dendrite                        | 樹枝狀結晶         |
| dendrites formation,            | 樹狀晶生成物        |
| dendritic growth                | 樹枝狀成長         |
| dendritic molecule              | 樹枝狀分子         |
| dendritic powder                | 樹枝狀粉末         |
| dendritic segregation           | 樹枝狀偏析         |
| dendritic spherulite fibrous    | 樹枝狀球晶纖維       |
| dendritic structure             | 樹枝狀組織         |
| denitrated collodion            | 脫硝膠綿；脫硝火棉膠    |
| denitriding                     | 脫氮            |
| dense                           | 緻密高折射率        |
| dense flint                     | 重燧石玻璃         |
| dense packing                   | 緊密堆積          |
| dense random packing            | 密集隨機堆積        |
| densener                        | 冷鐵            |
| densification                   | 緻密化           |
| density                         | 密度            |
| density functional theory (DFT) | 密度泛函理論        |
| density matrix                  | 密度矩陣          |
| density measurement             | 密度測量          |
| density method                  | 密度法           |
| density of states               | 態密度           |

|   |   |
|---|---|
| density range                               | 密度範圍                                      |
| density ratio                               | 密度比                                       |
| density-gradient column                     | 密度梯度管                                     |
| density-gradient sedimentation              | 密度梯度沉澱法                                   |
| dental gold                                 | 牙科用金 { 含 5-12%Ag · 4-10%Cu · 其餘為 Au 之合金 } |
| dental implant                              | 植牙體                                       |
| dental implantation                         | 牙科植入；植牙                                   |
| dental porcelain                            | 牙科用瓷器                                     |
| dentin barrier test                         | 牙本質障礙測試                                   |
| denture                                     | 義齒；假牙                                     |
| deodorant                                   | 脫臭劑                                       |
| deoxidation                                 | 脫氧去氧                                      |
| deoxidization                               | 脫氧去氧                                      |
| deoxidized copper                           | 脫氧銅                                       |
| deoxidizer                                  | 脫氧劑                                       |
| deoxidizing                                 | 去氧；脫氧                                     |
| deoxidizing agent                           | 脫氧劑                                       |
| deoxygenation                               | 脫氧  |
| deoxycellulose                              | 去氧纖維素                                     |
| deoxyribonucleic acid                       | 去氧核糖核酸                                    |
| deoxyribonucleic acid (DNA)                 | 去氧核糖核酸                                    |
| deoxyribonucleic acid polymerase            | 去氧核糖核酸聚合酶                                 |
| dephosphorization                           | 脫磷  |
| depleted uranium                            | 耗竭鈾；耗乏鈾                                   |
| depletion layer                             | 空乏層                                       |
| depletion region                            | 耗竭區                                       |
| depolarization                              | 去極化[作用]                                   |
| depolarizer                                 | 去極化劑                                      |
| depolymerase                                | 解聚酶                                       |
| depolymerization                            | 解聚合                                       |
| depolymerization polymerization equilibrium | 解聚-聚合平衡                                   |

|  |                |
|--|----------------|
| depolymerization reaction                    | 解聚反應           |
| depolymerized rubber                         | 解聚橡膠           |
| deposited attack                             | 沉積侵蝕           |
| deposited protection                         | 鍍層保護           |
| deposition                                   | 沉積；鍍層          |
| depreciation                                 | 降價 折舊          |
| depropagation                                | 解聚 { 化學 } ；反傳遞 |
| depth of chill                               | 冷硬深度           |
| depth profile                                | 縱深分析           |
| derivative crystal structure                 | 衍生晶體結構         |
| dermal fibroblast                            | 真皮纖維母細胞        |
| dermis                                       | 真皮層            |
| desaminotyrosyl-L-tyrosine alkyl ester (DTR) | 去氨基酪氨酸烷基酯      |
| descale                                      | 去鏽             |
| desilverizing                                | 去銀             |
| desmosome                                    | 細胞間橋體          |
| desorption                                   | 去吸附；脫附         |
| desorption activation energy                 | 去吸附活化能         |
| desorption, anode process                    | 脫附             |
| destaticizer                                 | 除靜電劑           |
| destructive pyrolysis                        | 破壞性熱解          |
| destructive testing                          | 破壞性試驗          |
| desulfurization                              | 脫硫             |
| desulphurization                             | 脫硫             |
| detector                                     | 偵檢器            |
| detergent                                    | 去污劑；清潔劑        |
| detergent additive                           | 去污劑添加物         |
| deterioration                                | 變質；退化          |
| detonation limits (in air)                   | 爆炸極限           |
| deuterated polymer                           | 氘化聚合物          |
| deuteration                                  | 氘化作用           |

|                                 |                        |
|---------------------------------|------------------------|
| deuterium                       | 氘                      |
| deuterium oxide                 | 氧化氘                    |
| deuteromonomer                  | 含氘單體                   |
| Deutsche Industrie Normen (DIN) | 德國工業標準                 |
| Deval abrasion test             | 戴佛磨損試驗                 |
| developed direct dye            | 顯色直接染料                 |
| developed dye                   | 顯色染料                   |
| devitrification                 | 失透；結晶                  |
| devitrified glass               | 失透玻璃                   |
| devitrite                       | 失透物                    |
| devulcanizing agent             | 去硫化劑                   |
| dew point                       | 露點                     |
| dewaxed lac                     | 脫蠟蟲膠                   |
| dewaxing                        | 脫蠟                     |
| dewpoint hygrometers            | 露點溼度計                  |
| dewpoint indicator              | 露點計                    |
| dextran                         | 聚葡萄糖；右旋糖酐              |
| dextranucrase                   | 聚葡萄糖蔗糖酶                |
| dextrin                         | 糊精                     |
| dextrin saccharifying unit      | 糊精糖精化單位                |
| dextrinization                  | 糊精化                    |
| dezincification                 | 脫鋅                     |
| DH degassing process            | DH 去氣法                 |
| DHP copper                      | DHP 銅 { 同 DLP copper } |
| diacrylate                      | 二丙烯酸酯                  |
| diads                           | 二價基                    |
| diagonal axis                   | 對角軸                    |
| dialdehyde                      | 二醛類                    |
| dialdehyde cellulose            | 二醛纖維素                  |
| dialdehyde polysaccharide       | 二醛多醣體                  |
| dialdehyde starch               | 雙醛類澱粉                  |
| dialysis                        | 透析；滲析                  |

|  |           |
|--|-----------|
| dialyzer                                 | 透析器       |
| diamagnetic substance                    | 反磁性體      |
| diamagnetism                             | 反磁性       |
| diamine                                  | 雙胺        |
| diamine-derived azo dye                  | 雙胺基衍偶氮染料  |
| diamino dimethyl sulphone (DDS)          | 二氮二甲基砒    |
| diamond                                  | 金剛鑽；鑽石    |
| diamond cubic                            | 鑽石立方      |
| diamond lattice                          | 鑽石[型]格子   |
| diamond polishing                        | 鑽石[細粉]拋光  |
| diamond pyramid hardness (DPH)           | 鑽石角錐硬度    |
| diamond pyramid hardness test            | 鑽石角錐硬度試驗  |
| diamond saw                              | 金鋼石鋸      |
| diamond structure                        | 鑽石[型]組織   |
| diamond structure                        | 鑽石結構      |
| diamond wheel                            | 鑽石磨輪      |
| diamond-like carbon (DLC)                | 類鑽碳       |
| diamonoid                                | 鑽石烷       |
| diaphragm materials, hydrogen from water | 隔膜材料      |
| diaphragm pumps                          | 隔膜泵浦      |
| diaphragm pump                           | 隔膜泵       |
| diasolysis                               | 溶膠透析；有機透析 |
| diaspore                                 | 水鋁石       |
| diastase                                 | 糖化酶       |
| diastereosequence distribution           | 非立體順序分佈   |
| diatactic polymer                        | 雙雜排高分子    |
| diathermy                                | 絕熱        |
| diatomaceous earth                       | 矽藻土       |
| diatomic chain                           | 雙原子鏈      |
| diatomic molecule                        | 雙原子分子     |
| diatomite                                | 矽藻土       |
| diazo dye                                | 重氮染料      |

|                                       |                                  |
|---------------------------------------|----------------------------------|
| diazoalkane                           | 重氮烴                              |
| diazoalkane polymerization            | 重氮烴聚合                            |
| diazo-coupling                        | 重氮耦合                             |
| diazonium compound                    | 重氮化合物                            |
| diazonium salt                        | 重氮鹽                              |
| diazotization                         | 重氮化                              |
| diblock copolymer                     | 雙嵌段共聚物                           |
| dicalcium phosphate anhydrous (DCPA)  | 無水磷酸氫鈣                           |
| dicalcium phosphate dihydrate (DCPD)  | 二水磷酸氫鈣                           |
| dicalcium silicate                    | 矽酸二鈣                             |
| dicarboxylic acid                     | 二羧酸                              |
| dichlorodiphenyltrichloroethane (DDT) | 1,1,1-三氯-2,2-雙(對-氯苯基)乙烷 { 殺蟲劑 }  |
| dichloromethane                       | 二氯甲烷                             |
| dichroic ratio                        | 雙色比                              |
| dichroism                             | 雙色性                              |
| dichromate treatment                  | 二鉻酸處理                            |
| dickite                               | 二重高嶺土                            |
| dicomponent copolyurea                | 二元共聚脲                            |
| didymium                              | 鐳 { Pr · 59 } 與釹 { Nd · 60 } 之通稱 |
| die                                   | 模                                |
| die block                             | 模塊                               |
| die bottom                            | 下模                               |
| die cast                              | 壓鑄                               |
| die cast alloy                        | 壓鑄合金                             |
| die casting                           | 壓鑄法                              |
| die casting machine                   | 壓鑄機                              |
| die clearance                         | 模隙                               |
| die cushion                           | 模墊 { 壓機 }                        |
| die forging                           | 模鍛                               |
| die hammer                            | 模鎚                               |
| die impression                        | 模型                               |
| die insert                            | 模嵌塊                              |

|                                |                    |
|--------------------------------|--------------------|
| die layout                     | 模佈置                |
| die life                       | 模壽命                |
| die lock                       | 模鎖                 |
| die lubricant                  | 模具潤滑劑              |
| die making                     | 製模                 |
| die mismatch                   | 模錯位                |
| die opening                    | 模距                 |
| die press quenching            | 模壓淬火               |
| die pressing                   | 模壓                 |
| die proof                      | 驗模件                |
| die quench                     | 夾模淬火               |
| die seat                       | 模底                 |
| die set                        | 模組                 |
| die setting                    | 裝模                 |
| die shank                      | 模柄                 |
| die shift                      | 模移量                |
| die shoe                       | 模托 { 壓機 }          |
| die sinking                    | 刻模                 |
| die sinking machine            | 刻模機                |
| die slide                      | 模滑條 { 壓機 }         |
| die space                      | 模面大小               |
| die steel                      | 模具鋼                |
| die temperature                | 模溫                 |
| dielectric                     | 介電[質]              |
| dielectric breakdown strength  | 介電強度；介電崩潰強度；介電破壞強度 |
| dielectric confinement effect  | 介電侷限效應             |
| dielectric constant            | 介電常數               |
| dielectric dispersion          | 介電分散               |
| dielectric heating             | 介電加熱               |
| dielectric insulator           | 介電絕緣體              |
| dielectric loss angle          | 介電損失角              |
| dielectric loss characteristic | 介電損失特性             |
| dielectric loss factor         | 介電損失因子             |

|   |                   |
|---|-------------------|
| dielectric power loss                                 | 介電功率損失            |
| dielectric property                                   | 介電性質              |
| dielectric relaxation time                            | 介電鬆馳時間            |
| dielectric response theory                            | 介電響應理論            |
| dielectric strength                                   | 介電強度              |
| dielectrophoresis                                     | 介電電泳              |
| dielectrophoretic chromatography                      | 介電電泳層析            |
| diene   | 二烯類               |
| diene polymer   | 二烯聚合物             |
| diene polymerization                                  | 二烯聚合              |
| diene rubber  | 二烯橡膠              |
| dienophile  | 親二烯體              |
| diepoxide   | 二環氧化合物            |
| diepoxy diluent                                       | 二環氧化合物稀釋劑         |
| diesel fuel   | 柴油燃料              |
| diethyl fumarate (DMF)                                | 富馬酸二甲酯            |
| differential aeration corrosion                       | 氧差腐蝕              |
| differential confocal microscopy                      | 示差共焦顯微術           |
| differential cross-section of scattering              | 微分散射截面            |
| differential dilation curve                           | 示差膨脹曲線            |
| differential electrochemical mass spectroscopy (DEMS) | 微分電化學質譜；差分電化學質譜   |
| differential gear                                     | 差速齒輪              |
| differential heating                                  | 差別加熱              |
| differential micrometer                               | 差動測微計             |
| differential mobility analyzer                        | 微分遷移率分析儀；差分遷移率分析儀 |
| differential quenching                                | 示差淬火              |
| differential scanning calorimeter (DSC)               | 示差掃描卡計            |
| differential scanning calorimetry (DSC)               | 示差掃描熱卡計           |
| differential spectrophotometry                        | 示差分光光度計           |

|  |             |
|--|-------------|
| differential thermal analysis            | 示差熱分析       |
| differential thermal analysis (DTA)      | 熱差分析        |
| differential thermocouple                | 示差熱電偶       |
| differential thermogravimetry            | 示差熱重量法      |
| differential transmission spectrum (DTS) | 微分穿透光譜      |
| diffraction                              | 繞射          |
| diffraction aberration                   | 繞射像差        |
| diffraction contrast                     | 繞射對比        |
| diffraction grating                      | 繞射光柵        |
| diffraction limit                        | 繞射極限        |
| diffraction line                         | 繞射線         |
| diffraction space                        | 繞射空間        |
| diffractometer                           | 繞射儀         |
| diffractometric method                   | 繞射測試法       |
| diffusate                                | 擴散物         |
| diffuse background                       | 漫射背景        |
| diffuse interface                        | 擴散介面        |
| diffuse neck                             | 擴散縮頸        |
| diffusion                                | 擴散          |
| diffusion activation energy              | 擴散活化能       |
| diffusion annealing                      | 擴散退火        |
| diffusion barrier                        | 擴散阻礙層；擴散阻障層 |
| diffusion bonding                        | 擴散接合        |
| diffusion boundary layer                 | 擴散境界層       |
| diffusion coating                        | 擴散護膜        |
| diffusion coefficient                    | 擴散係數        |
| diffusion constant                       | 擴散常數        |
| diffusion creep                          | 擴散潛變        |
| diffusion effect                         | 擴散效應        |
| diffusion hardening                      | 擴散硬化        |
| diffusion hole                           | 擴散孔         |
| diffusion internal friction              | 擴散內耗        |

|                                     |                 |
|-------------------------------------|-----------------|
| diffusion normalizing               | 擴散正常化           |
| diffusion process                   | 擴散法             |
| diffusion pump                      | 擴散幫浦            |
| diffusion region                    | 擴散領域            |
| diffusion shift                     | 擴散偏移            |
| diffusion sintering                 | 擴散燒結            |
| diffusion transformation            | 擴散轉變；擴散變態       |
| diffusion welding                   | 擴散銲接            |
| diffusion zone                      | 擴散帶             |
| diffusion-controlled growth         | 擴散控制成長          |
| diffusion-controlled precipitation  | 擴散控制析出          |
| diffusion-controlled reaction       | 擴散控制反應          |
| diffusion-controlled transformation | 擴散控制轉變；擴散控制變態   |
| diffusionless transformation        | 無擴散轉變；無擴散變態     |
| diffusion-limited aggregation       | 擴散限制聚集作用；擴散限制聚集 |
| diffusivity                         | 擴散性；擴散率         |
| diffusivity path                    | 擴散性路徑           |
| difunctional reactant               | 雙官能基反應物         |
| digital bubble memory               | 數位[磁]泡記憶體       |
| dihalide                            | 二鹵化物            |
| dihedral angle                      | 二面角             |
| dihedral angle                      | 雙面角；兩面角         |
| dihedral angle                      | 二面角；雙面角         |
| dihydric alcohol                    | 二羥基酒精           |
| dilatancy                           | 膨脹性             |
| dilatation curve                    | 膨脹曲線            |
| dilatometer                         | 膨脹計；熱膨脹儀        |
| dilatometric rate                   | 膨脹速率            |
| dilatometry                         | 膨脹測定法           |
| dilute-phase fluidization           | 稀相流體化           |
| dilute-solution viscometry          | 稀液黏度測定法         |

|                         |                         |
|-------------------------|-------------------------|
| dimension               | 尺寸；因次；維；度               |
| dimension change        | 尺寸變化                    |
| dimensional instability | 尺寸不穩定性                  |
| dimensional stability   | 尺寸安定性                   |
| dimensional tolerance   | 尺寸公差                    |
| dimensionality effect   | 維度效應；維數效應               |
| dimensionless unit      | 無因次單位                   |
| dimer acid              | 二體酸                     |
| dimer acid polyamide    | 二體酸聚醯胺                  |
| dimerization            | 二體化反應                   |
| dimerized rosin         | 二體化松香                   |
| dimethylglyoxime test   | 鎳定性試驗                   |
| dimming test            | 檢光試驗                    |
| dinas brick             | 矽磚                      |
| diopside                | 透輝石                     |
| diorite                 | 閃長岩                     |
| dioxime                 | 二肟                      |
| dioxine                 | 戴奧辛                     |
| dip brazing             | 熱浸硬焊                    |
| dip pen nanolithography | 沾筆奈米微影術；沾筆奈米石刻術；沾筆奈米刻板術 |
| dip transfer            | 浸送 { 熔結時金屬由電極至熔池 }      |
| dipcoat                 | 浸塗；浸覆                   |
| dip-coating             | 浸塗                      |
| diphenol                | 二酚                      |
| dipolar eigenmode       | 雙極特徵模式；偶極特徵模式           |
| dipole                  | 偶極；雙極                   |
| dipole force            | 偶極力                     |
| dipole material         | 偶極性材料                   |
| dipole moment           | 偶極矩                     |
| dipole-dipole energy    | 偶極-偶極能                  |
| dipping                 | 浸漬                      |
| dipropylene glycol      | 二丙烯甘醇                   |

|                                  |             |
|----------------------------------|-------------|
| direct amidation                 | 直接醯胺化       |
| direct arc furnace               | 直接電弧爐       |
| direct arc heating               | 直接電弧加熱      |
| direct chill casting             | 直接冷鑄        |
| direct correlation function      | 直接關聯函數      |
| direct energy conversion         | 直接能量轉換      |
| direct esterification            | 直接脂化反應      |
| direct etching                   | 直接蝕刻        |
| direct extruders                 | 直接擠出機       |
| direct extrusion                 | 順擠；直接擠製     |
| direct firing                    | 直接噴燃；敞燒法    |
| direct fuel cells                | 直接燃料電池      |
| direct gain glazing system       | 直接增輝系統      |
| direct heat method               | 直接加熱法       |
| direct interchange diffusion     | 直接交換擴散      |
| direct internal reforming        | 直接內部重組      |
| direct methane fuel cell         | 直接甲烷燃料電池    |
| direct methanol fuel cell (DMFC) | 直接甲醇燃料電池    |
| direct methanol/air fuel cell    | 直接甲醇/空氣燃料電池 |
| direct quench aging              | 直接淬火時效      |
| direct redrawing                 | 順向再伸延       |
| direct reduction process         | 直接還原法       |
| direct space model               | 直接空間模型      |
| direct stress                    | 正交應力        |
| direct teeming                   | 頂注法         |
| direct tempering                 | 真接回火        |
| direct templating                | 直接模板法       |
| direct transformation            | 直接轉變；直接變態   |
| direct writing                   | 直接寫入        |
| direct-arc furnace               | 直熱電弧爐       |
| direct-injection method          | 直接射出法       |
| directional ordering             | 指向性序化       |

|                                 |                |
|---------------------------------|----------------|
| directional property            | 具方向性的性質        |
| directional solidification      | 方向性凝固          |
| directionality                  | 方向性            |
| dirt                            | 渣              |
| dirt inclusion                  | 夾灰             |
| dirt trap                       | 集灰阱            |
| dirty limit superconductor      | 污限超導體          |
| disaccharide                    | 雙醣             |
| disappearing filament pyrometer | 隱絲[光學]高溫計      |
| disappearing-filament pyrometer | 隱絲光測高溫計        |
| disc mastering                  | 光碟刻版           |
| disc refiner                    | 盤式精製器          |
| Discaloy                        | 迪卡洛 { 耐熱鋼之一種 } |
| discharge                       | 放電             |
| discharge printing              | 放電印刷           |
| disclination                    | 向錯；方向錯置        |
| disclination-dislocation model  | 向錯-差排模型        |
| discoloration                   | 退色；變色          |
| discontinuous chip-formation    | 非連續成片法         |
| discontinuous eutectic          | 不連續共晶          |
| discontinuous fiber             | 不連續纖維          |
| discontinuous precipitation     | 不連續析出          |
| discontinuous yielding          | 不規則降伏          |
| discrete quantum level          | 離散量子能階         |
| discrete viscoelastic spectra   | 斷續黏彈性圖譜        |
| dishing press                   | [成]碟壓機         |
| disintegrant                    | 崩解劑；分解劑        |
| disintegration                  | 崩解             |
| disintegration index            | 粉碎指數           |
| disintegrator                   | 粉碎機            |
| disk feeder                     | 盤型加料機          |

|                            |               |
|----------------------------|---------------|
| dislocation                | 差排；錯位；位置錯置；脫臼 |
| dislocation                | 差排            |
| dislocation climb          | 差排爬升          |
| dislocation density        | 差排密度          |
| dislocation jog            | 差排階差          |
| dislocation kink           | 差排扭結          |
| dislocation line           | 差排線           |
| dislocation locking        | 差排楔鎖          |
| dislocation source         | 差排源           |
| dislocation strength       | 差排強度          |
| disorder                   | 無規律           |
| disorder chain propagation | 無規律鍊生長        |
| disordered fold surface    | 無規律摺面         |
| disordered solid solution  | 無序固溶體         |
| disordering                | 無序化；無規律化      |
| dispersant                 | 分散劑           |
| disperse dyeing            | 分散染色法         |
| dispersed drug delivery    | 分散藥物輸送；分散藥物傳輸 |
| dispersed shrinkage        | 分散縮孔 { 鑄疵 }   |
| dispersed systems          | 分散系統          |
| dispersibility             | 分散性           |
| dispersing                 | 分散化           |
| dispersing agent           | 分散劑           |
| dispersion                 | 分散            |
| dispersion curve           | 分散曲線          |
| dispersion effect          | 分散效應          |
| dispersion energy          | 分散能           |
| dispersion force           | 分散力           |
| dispersion hardening       | 分散硬化；散佈硬化     |
| dispersion interferometer  | 分散干涉儀；色散干涉儀   |
| dispersion processing      | 分散加工          |
| dispersion property        | 分散特性          |

|                                  |                      |
|----------------------------------|----------------------|
| dispersion spinning              | 分散紡                  |
| dispersion strengthening         | 分散強化；散佈強化            |
| dispersion type fuel             | 分散型[核子]燃料            |
| dispersoid                       | 散播物                  |
| displacement energy              | 移位能                  |
| displacement gradient            | 取代梯度                 |
| displacement reaction            | 置換反應                 |
| displacement spike               | 原子移位區                |
| disposable carbide tip           | 拋棄式碳化物刀尖塊            |
| disproportionation termination   | 不均化終止反應              |
| disruptive strength              | 破裂強度                 |
| dissimilar metal corrosion       | 異極[金屬]腐蝕             |
| dissipation                      | 耗散                   |
| dissipation factor               | 耗散因子                 |
| dissociation                     | 解離                   |
| dissociation energy              | 解離能                  |
| dissociation pressure            | 解離壓力                 |
| dissolution                      | 溶解                   |
| dissolved drug delivery          | 溶解藥物輸送；溶解藥物傳輸        |
| distance hardness                | 端距硬度                 |
| distarch carbonate               | 雙澱粉碳酸鹽               |
| distillate                       | 餾出物                  |
| distillation                     | 蒸餾                   |
| distilled water                  | 蒸餾水                  |
| distortion                       | 變形；歪變；畸變             |
| distraction osteogenesis         | 牽引成骨作用；牽引性骨生成術；牽開成骨術 |
| distributed feedback (DFB) laser | 分佈回饋雷射；分散回饋雷射        |
| distribution                     | 分布                   |
| distribution coefficient         | 分配係數                 |
| distribution function            | 分佈函數                 |
| di-vacancy                       | 雙空位                  |
| diver method                     | 潛取[樣]法               |

|                                   |               |
|-----------------------------------|---------------|
| divergent lens                    | 發散透鏡          |
| division wall                     | 隔牆            |
| divorced cementite                | 分離雪明碳鐵        |
| divorced eutectic                 | 分解共晶          |
| divorced pearlite                 | 粒狀波來鐵         |
| DNA chip                          | 去氧核糖核酸晶片      |
| DNA motor                         | 去氧核糖核酸馬達      |
| DNA probe                         | 去氧核糖核酸探針      |
| DNA technology                    | 去氧核糖核酸技術      |
| dobbin                            | 轉盤乾燥器         |
| doctor blade                      | 刮刀片           |
| doctor-blade technique            | 刮刀技術          |
| document glass                    | 文件玻璃          |
| dodecahedron                      | 十二面體          |
| dog house                         | 進料口；浮標磚入口     |
| doloma                            | 白雲石灰          |
| dolomite                          | 白雲石           |
| dolomite brick                    | 白雲石磚          |
| domain                            | 域；疇           |
| domain boundary                   | 磁域界壁          |
| domain structure                  | 域結構           |
| domain wall                       | 域壁；疇壁；磁區壁     |
| domain wall                       | 域壁；疇壁         |
| dome                              | 圓頂；穹窿 { 圓頂室 } |
| dome brick                        | 圓頂磚           |
| dome plug                         | 爐頂塞磚          |
| donor energy level                | 施體能階；予體能階     |
| donor impurity                    | 施體不純物；予體不純物   |
| donor-acceptor interaction theory | 施體受體交互作用理論    |
| donor-acceptor complex            | 施體受體錯合物       |
| dopant                            | 摻雜物；摻雜劑       |
| doping                            | 摻雜            |
| doping defect                     | 摻雜缺陷          |



|                                 |                |
|---------------------------------|----------------|
| Doppelduro process              | 杜氏火焰硬化法        |
| Doppler cooling                 | 都卜勒冷卻          |
| d-orbitals                      | d-軌域           |
| Doré bullion                    | 多爾錠 { 金銀錠 }    |
| Doré metal                      | 多爾金屬 { 金銀合金 }  |
| Doré silver                     | 多爾銀 { 含少量金 }   |
| Dorr agitator                   | 杜爾攪動器          |
| Dorr mill                       | 道爾磨機           |
| Dorr thickener                  | 杜爾濃稠槽          |
| Dorroco filter                  | 杜柯過濾機          |
| dosage                          | 劑量             |
| dose                            | 劑量             |
| dosimetry                       | 劑量測定法          |
| dot array                       | 點陣列            |
| dot welding                     | 點鐸[接]          |
| double annealing                | 雙重退火           |
| double carbide                  | 複碳化物           |
| double contraction              | 雙重收縮           |
| double cross slip               | 雙重交叉滑移         |
| double draining                 | 再排漿            |
| double equilibrium state        | 複平衡狀態          |
| double extra dense flint        | 雙超重燧石玻璃        |
| double layer                    | 雙層             |
| double layer effect             | 雙層效應           |
| double normalizing              | 雙重正常化          |
| double pass preheater           | 雙程預熱器          |
| double quenching                | 雙重淬火           |
| double rotation                 | 雙旋轉            |
| double skin                     | 夾層 { 鍛鑄件外層瑕疵 } |
| double tetrahedral unit         | 雙四面體單元         |
| double thermochemical treatment | 雙重熱化學處理        |
| double-action press             | 雙動壓機           |
| double-arch hammer              | 雙拱鎚            |

|                             |                       |
|-----------------------------|-----------------------|
| double-bridged polymer      | 雙橋高分子                 |
| double-chain polymer        | 雙鍊高分子                 |
| double-end upset            | 雙端鍛粗件                 |
| double-end upset forging    | 雙端鍛粗                  |
| double-end upsetting        | 雙端鍛粗法                 |
| double-face ware            | 雙面搪瓷器                 |
| double-frame hammer         | 雙架鎚                   |
| double-frit glaze           | 雙玻料釉                  |
| double-stage nitriding      | 雙重氮化法                 |
| double-wall carbon nanotube | 雙壁奈米碳管                |
| Dow process                 | 道氏製程                  |
| dowel                       | 合釘；定位銷；雙尖釘            |
| down-draught kiln           | 倒焰窯                   |
| down-draw process           | 下拉法                   |
| down-hand welding           | 水平熔接                  |
| downscaling                 | 縮小化                   |
| down-sprue                  | 下澆道                   |
| draft                       | 模斜度；繪圖；通風；通氣；吃水 { 船 } |
| drag                        | 下砂箱；阻力；拖曳             |
| drag flask                  | 下砂箱                   |
| dragade                     | 玻膏水淬[法]               |
| drag-ladle                  | 玻膏水淬[法]               |
| dragline                    | 拖索                    |
| drag-line                   | 拖索挖掘機                 |
| drain casting               | 空鑄法                   |
| drain tile                  | 排水瓦管                  |
| draw bar                    | 拉引棒磚                  |
| draw bend                   | 抽絲珠                   |
| draw bending                | 拉延彎曲                  |
| draw ring                   | 拉延環                   |
| drawability                 | 拉延性；可拉性               |
| drawbench                   | 拉製機檯                  |
| drawing                     | 回火；拉製；抽製；繪圖           |

|                            |                    |
|----------------------------|--------------------|
| drawing chamber            | 拉引間                |
| drawing die                | 拉模                 |
| dressing                   | 修整；敷料              |
| drift                      | 衝銷；輕敲              |
| drift                      | 漂移                 |
| drift test                 | 頂進定量變形試驗           |
| drip pyrolysis             | 滴水熱解               |
| drive system, ZEV          | 驅動系統               |
| driven roll                | 被動輓筒               |
| drop                       | 落砂 { 鑄疵 }          |
| drop arch                  | 低拱                 |
| drop cutting               | 下穿切割               |
| drop feed carburizing      | 滴注滲碳               |
| drop forging               | 落錘鍛                |
| drop hammer                | 落錘                 |
| drop hammer forming        | 落錘成形               |
| drop test                  | 墜重試驗；墜落試驗          |
| dropping mercury electrode | 滴汞電極               |
| drop-through die           | 下穿模                |
| dross                      | 浮渣                 |
| Drude-Lorentz law          | 朱-羅氏定律 { 金屬高導電率 }  |
| drug control-release       | 藥物制放               |
| drug delivery              | 藥物傳輸；藥物輸送；藥物傳遞     |
| drug delivery system (DDS) | 藥物傳輸系統；藥物輸送系統      |
| drug screening             | 藥物篩檢               |
| drug targeting delivery    | 藥物靶定傳遞             |
| drum mixer                 | 鼓形拌合機              |
| dry battery                | 乾電池組               |
| dry body                   | 乾坯                 |
| dry bulb economizer        | 乾球節省器              |
| dry cell                   | 乾電池                |
| dry copper                 | 乾銅 { 含多量氧化亞銅之脆性銅 } |

|                                |                 |
|--------------------------------|-----------------|
| dry corrosion                  | 乾蝕              |
| dry cyaniding                  | 乾式氰化法           |
| dry drawing                    | 乾拉延             |
| dry enamelling                 | 乾珐瑯法            |
| dry etching                    | 乾蝕刻             |
| dry extrusion process          | 乾式擠出法           |
| dry ice                        | 乾冰              |
| dry mix                        | 乾式混合            |
| dry mixing                     | 乾式混合            |
| dry offset printing            | 乾式平板印刷          |
| dry pan                        | 乾燥盤             |
| dry permeability               | 乾砂通氣性           |
| dry pressing                   | 乾壓              |
| dry process                    | 乾式法             |
| dry process enameling          | 乾法施工搪瓷          |
| dry quenching                  | 乾式淬火            |
| dry reforming                  | 乾燥重組            |
| dry sand                       | 乾沙              |
| dry sand molding               | 乾模法             |
| dry shrinkage                  | 乾燥收縮            |
| dry spinning                   | 乾式紡絲法           |
| dry spray                      | 乾式噴塗            |
| dry strength                   | 乾強度             |
| dry tempering                  | 乾式回火            |
| dryer                          | 乾燥器；乾燥機；乾燥劑；乾燥室 |
| drying                         | 乾燥              |
| drying agent                   | 乾燥劑             |
| drying oil                     | 乾性油             |
| drying period                  | 乾燥週期            |
| dual drum mixer                | 雙鼓形拌合機          |
| dual duct system               | 雙管系統            |
| dual phase steel               | 雙相鋼             |
| dual-loop water removal system | 雙迴路排水系統         |

|   |                                       |
|---|---------------------------------------|
| duct design programs                      | 管道設計                                  |
| ductile cast iron                         | 延性鑄鐵 { 球狀石墨鑄鐵 }                       |
| ductile crack                             | 延性裂痕 ; 延性裂縫                           |
| ductile fracture                          | 延性破裂                                  |
| ductile rupture                           | 延性破壞                                  |
| ductile to brittle transition temperature | 延脆性過渡溫度 ; 延性轉脆溫度                      |
| ductility                                 | 延性                                    |
| ductility test                            | 延性試驗                                  |
| ductility transition                      | 延性轉換                                  |
| Dufour effect                             | 杜佛效應                                  |
| dulling                                   | 消光 ; 消亮 ; 失澤                          |
| Dumet wire                                | 杜梅線 { 包銅之鎳鐵合金線 }                      |
| dumortierite                              | 藍線石                                   |
| dump                                      | 爐座 ; 廢棄物 ; 鉢圈                         |
| dump test                                 | 壓塌試驗                                  |
| dunting                                   | 冷裂                                    |
| duplex cell                               | 雙重電池 { 混合車 }                          |
| duplex grain                              | 混粒                                    |
| duplex process                            | 雙重熔解法                                 |
| duplex steel                              | 雙重[精煉]鋼                               |
| durability                                | 耐久性                                   |
| durable-fire retardant finish             | 持久耐火處理                                |
| durable-press                             | 持久加壓                                  |
| Dural plate                               | 杜拉夾層板 { 被覆輕合金 · 杜拉鋁心 · 1-3%Mg-Al 被覆 } |
| Duralumin                                 | 杜拉鋁                                   |
| Duranickel                                | 杜拉鎳 { 一種時效硬化鎳合金 }                     |
| Durenhete                                 | 杜拉鋼 { 抗溼度鋼 · 含 1%Cr · 0.3%Mo }        |
| Durex                                     | 杜拉銅 { 含 4.5g 石墨 · 10%錫之多孔青銅 }         |
| Durilium                                  | 杜拉系鋁 ; 杜拉鋁型合金                         |
| durometer                                 | 硬度計                                   |

|                                  |                      |
|----------------------------------|----------------------|
| Duronze                          | 杜拉銅 { 一種矽青銅 }        |
| Durrans mercury method           | 杜朗水銀法                |
| Durville casting                 | 杜維鑄造法                |
| dust                             | 微塵 ; 塵泡 ; 撒粉[法]      |
| dust coat                        | 粉塗                   |
| dust proof                       | 防塵                   |
| dusting                          | 粉塵                   |
| dusting powder                   | 塵狀粉                  |
| Dutch gilding                    | 荷蘭金 { 含 15-20%矽之銅箔 } |
| duty cycle                       | 功率循環 · 功率週期          |
| dwell                            | 暫停 { 壓機 }            |
| Dwight-Lloyd machine             | 維-勞氏煅燒機              |
| dye                              | 染料                   |
| dye absorption                   | 吸色 ; 染料吸入            |
| dye beck                         | 缸染                   |
| dye jig                          | 卷染機                  |
| dye penetrant                    | 染色浸滲液                |
| dye penetrant check              | 染色浸滲查法               |
| dye penetration                  | 滲色 ; 染料滲入            |
| dye receptor                     | 受染體                  |
| dye site                         | 染位                   |
| dye-partition test               | 染料分配試驗               |
| dye-polymer interaction          | 染料高分子交互作用            |
| dynamic angle spinning (DAS)     | 動態角自旋                |
| dynamic annealing                | 動態退火                 |
| dynamic birefringence            | 動態雙折射                |
| dynamic hardening                | 動態硬化                 |
| dynamic load                     | 動態負荷                 |
| dynamic mechanical loss spectrum | 動態機械耗損圖譜             |
| dynamic mechanical testing       | 動態機械試驗               |
| dynamic modulus                  | 動態模數                 |
| dynamic modulus of elasticity    | 動彈性模數                |

|                                     |           |
|-------------------------------------|-----------|
| dynamic quenching                   | 動態淬火      |
| dynamic random access memory (DRAM) | 動態隨機存取記憶體 |
| dynamic recovery                    | 動態回復      |
| dynamic seal                        | 動態封口      |
| dynamic strain-aging                | 動態應變時效    |
| dynamic strength                    | 動力強度      |
| dynamic test                        | 動態試驗      |
| dynamic viscosity                   | 動態黏度      |
| dysprosium (Dy)                     | 鎬         |

# E

|   |   |
|---|---|
| earing  | 成耳 { 衝壓 }   |
| earthenware   | 陶器 ; 瓦器   |
| easy fired  | 易燒  |
| easy glide plane  | 易滑面   |
| easy-axis of magnetization                                    | 易磁化軸  |
| easy-flo  | 易流硬焊料 { 含 Ag50% · Cd18% · Sn16.5% · Cu15.5% 之四元共晶 } |
| eaves tile  | 簷瓦  |
| ebonite   | 硬橡膠   |
| ebulliometry  | 沸點上升分子量測定法 ; 沸點上升測定法                                |
| ebullioscopy  | 沸點上升法   |
| eccentric converter   | 偏心轉爐  |
| eccentric upset   | 偏心鍛粗件   |
| eccentric upset forging                                       | 偏心鍛粗  |
| eccentric upsetting   | 偏心鍛粗法   |
| economizer  | [鍋爐]節熱器   |
| ECTDMS (electrochemical thermal desorption mass spectroscopy) | 電化學熱脫附質譜  |
| ectoderm  | 外胚層   |
| ectodermal derived tissue                                     | 外胚層衍生組織   |
| eddy  | 渦流  |
| eddy current  | 渦[電]流   |
| eddy current loss   | 渦[電]流損失   |
| eddy current test   | 渦[電]流試驗   |
| eddy diffusion  | 渦流擴散  |
| eddy-current loss   | 渦電流損失   |
| edestin   | 麻仁球蛋白   |
| edge bending  | 側向彎曲  |
| edge crack  | 邊緣裂紋  |
| edge dislocation  | 刃差排   |

|                                 |              |
|---------------------------------|--------------|
| edge lining                     | 鈎邊           |
| edge runner                     | 混砂機          |
| edge-crimped yarn               | 邊皺紗          |
| edger                           | 磨邊器 ; 成邊器    |
| edge-runner mill                | 輪輾機          |
| edging                          | 整邊 ; 磨邊 ; 成邊 |
| edging impression               | 成邊型          |
| edging stone                    | 磨邊石          |
| Edison electrode process        | 愛迪生電極過程      |
| effect yarn                     | 精紡紗          |
| effective aperture              | 有效孔徑         |
| effective case depth            | 有效硬化深度       |
| effective charge                | 有效電荷         |
| effective field theory          | 有效場論         |
| effective mass                  | 有效質量         |
| effective medium approximations | 有效介質近似法      |
| effective strain                | 有效應變         |
| effective stress                | 有效應力         |
| effective-denier                | 有效丹尼值        |
| effervescing steel              | 淨面鋼          |
| effervescenced steel            | 沸騰鋼          |
| efficiency                      | 效率           |
| efflorescence                   | 粉化 ; 風化      |
| efflorwick test                 | 風化試驗         |
| effluent                        | 流出物          |
| efflux pump                     | 外排泵 { 藥物 }   |
| egg albumen                     | 卵蛋白          |
| eggshell procelain              | 蛋殼薄瓷         |
| eggshelling                     | 蛋殼面          |
| E-glass fiber                   | E 級玻璃纖維      |
| eigenmode                       | 特徵模式         |
| einsteinium (Es)                | 鐳            |
| Einstein-Stark law              | 愛因斯坦-史塔克定律   |
| ejection                        | 頂出           |

|                       |           |
|-----------------------|-----------|
| ejection system       | 頂出系統      |
| ejector               | 頂出器；噴射器   |
| ejector pin           | 頂出銷；射銷    |
| ejector plate         | 頂出板       |
| ejector system        | 頂桿系統      |
| ejectors              | 噴射器       |
| elastic aftereffect   | 彈性餘效      |
| elastic after-effect  | 彈性後效；彈性餘效 |
| elastic behavior      | 彈性行為      |
| elastic constant      | 彈性常數      |
| elastic constraint    | 彈性抑制      |
| elastic deflection    | 彈性撓曲      |
| elastic deformation   | 彈性變形      |
| elastic fatigue       | 彈性疲勞      |
| elastic fore-effect   | 彈性前效      |
| elastic hardness      | 彈性硬度      |
| elastic hysteresis    | 彈性遲滯      |
| elastic limit         | 彈性限       |
| elastic medium        | 彈性媒質      |
| elastic memory        | 彈性記憶      |
| elastic modulus       | 彈性模數      |
| elastic property      | 彈性性質      |
| elastic reactance     | 彈性抗       |
| elastic recoil        | 彈性回彈      |
| elastic recovery      | 彈性恢復      |
| elastic shear modulus | 彈性剪模數     |
| elastic sphere theory | 彈性球理論     |
| elastic stiffness     | 彈性剛性      |
| elastic strain        | 彈性應變      |
| elasticizer           | 增彈劑       |
| elastin               | 彈性蛋白；彈力蛋白 |
| elastomagnetic effect | 彈磁效應      |
| elastomagnetic sensor | 磁彈性感測器    |
| elastomer             | 彈性體       |

|  |                                  |
|--|----------------------------------|
| elastomeric fiber                        | 彈性體纖維                            |
| elastomeric mould                        | 彈性體模具                            |
| elastoviscous polymer                    | 黏彈性聚合物                           |
| elbow replacement                        | 肘關節置換                            |
| electro-dialysis                         | 電透析                              |
| Eldred's wire                            | 愛瑞得導線 { 鍍銅·鎳<br>鐵心封於玻璃內之導<br>線 } |
| electret                                 | 駐極體                              |
| electric arc furnace                     | 電弧爐                              |
| electric arc process                     | 電弧製程                             |
| electric arc welding                     | 電弧熔接                             |
| electric charge transport                | 電荷遷移                             |
| electric conduction                      | 導電                               |
| electric conductivity                    | 導電率；電導性                          |
| electric conductivity,<br>SOFC materials | 導電率                              |
| electric conductor                       | 導電體                              |
| electric current density                 | 電流密度                             |
| electric dipole                          | 電偶極                              |
| electric discharge                       | 電蝕機；放電加工機                        |
| electric field                           | 電場                               |
| electric field disorder                  | 電場[致]無序                          |
| electric furnace                         | 電爐                               |
| electric furnace iron                    | 電爐生鐵                             |
| electric furnace steel                   | 電爐鋼                              |
| electric furnace steel<br>making         | 電爐煉鋼                             |
| electric heating                         | 電加熱                              |
| electric induction                       | 電感應                              |
| electric induction furnace               | 感應電爐                             |
| electric insulator                       | 電絕緣體                             |
| electric micrometer                      | 電測分厘卡                            |
| electric motors                          | 電動馬達                             |
| electric neutrality                      | 電中性                              |
| electric precipitation                   | 電力析出                             |

|                                      |                  |
|--------------------------------------|------------------|
| electric procelain                   | 電瓷               |
| electric quadrupole interaction      | 電四極相互作用          |
| electric resistance furnace          | 電阻爐              |
| electric resistance heater           | 電阻加熱器            |
| electric resistance strain gage      | 電阻應變計            |
| electric resistance thermometer      | 電阻溫度計            |
| electric resistance welding          | 電阻熔接             |
| electric resistivity                 | 電阻率              |
| electric spark machining             | 放電加工 { 同 E.D.M } |
| electric steel                       | 電爐鋼              |
| electric vehicle                     | 電動車              |
| electric welding                     | 電熔接              |
| electrical analysis                  | 電力分析             |
| electrical conductivity              | 導電率；電導性          |
| electrical connection                | 電接連              |
| electrical discharge                 | 放電               |
| electrical discharge machining (EDM) | 放電加工             |
| electrical distribution              | 電力分配             |
| electrical double layer              | 電雙層              |
| electrical energy                    | 電能               |
| electrical fuel cell                 | 電力燃料電池           |
| electrical impedance                 | 電阻抗              |
| electrical migration                 | 電遷移              |
| electrical rating                    | 電力額定功率           |
| electrical resistance                | 電阻               |
| electric-arc cutting                 | 電弧切割             |
| electric-furnace ferrosilicon        | 電爐矽鐵             |
| electrocast refractory               | 電鑄耐火材            |
| electrocatalysts                     | 電催化劑             |
| electrocatalytic property            | 電催化性質            |
| electroceramic                       | 電子陶瓷             |

|  |           |
|--|-----------|
| electrochemical array                  | 電化學陣列     |
| electrochemical battery                | 電化學電池     |
| electrochemical corrosion              | 電化腐蝕      |
| electrochemical cyaniding              | 電解氰化      |
| electrochemical deposition             | 電化學沉積     |
| electrochemical efficiency             | 電化學效率     |
| electrochemical energy conversion      | 電化學能量轉換   |
| electrochemical equivalent             | 電化當量      |
| electrochemical gene sensor            | 電化學基因感測器  |
| electrochemical grinding               | 電化研磨      |
| electrochemical machining (ECM)        | 電化加工      |
| electrochemical oxidation              | 電化學氧化     |
| electrochemical permeation method      | 電化學滲透法    |
| electrochemical polymerization         | 電化聚合      |
| electrochemical potential              | 電化學位能；電動勢 |
| electrochemical reaction               | 電化學反應     |
| electrochemical self-assembly          | 電化學自組裝法   |
| electrochemical series                 | 電化序       |
| electrochemical vapor deposition (EVD) | 電化學氣相沉積   |
| electrochemiluminescence (ECL)         | 電化[學]致發光  |
| electrochromic                         | 電致變色      |
| electrochromic material                | 電致變色材料    |
| electrochromism                        | 電致變色      |
| electrocoating                         | 電泳護模；電著護模 |
| electrode                              | 電極；熔接條    |
| electrode capacitance                  | 電極電容      |
| electrode characteristics              | 電極特性      |
| electrode construction                 | 電極結構      |
| electrode kinetics                     | 電極動力學     |

|                              |              |
|------------------------------|--------------|
| electrode material           | 電極材料         |
| electrode mechanism          | 電極機制         |
| electrode polarization       | 電極極化         |
| electrode potential          | 電極電位         |
| electrode reaction           | 電極反應         |
| electrode ring               | 電極環          |
| electrode-electrolyte system | 電極-電解質系統     |
| electrodeless etching        | 無電極蝕刻        |
| electrodeless radiation      | 無電極輻射        |
| electro-deposited            | 電積層          |
| electro-deposition           | 電鍍           |
| electrodynamic suspension    | 電動懸浮         |
| electro-etching              | 電解浸蝕；電解蝕刻    |
| electro-forming              | 電鑄           |
| electrofusion                | 電熔           |
| electro-galvanizing          | 電積鍍鋅法        |
| electro-graphy               | 譜法；電記錄術      |
| electrohydraulic forming     | 電液成型         |
| electrokinetics              | 動電學          |
| electroless displacement     | 無電鍍置換        |
| electroless plating          | 無電電鍍 { 化學鍍 } |
| electroluminescence          | 電致發光         |
| electroluminescent display   | 電致發光顯示器      |
| electrolyser                 | 電解槽          |
| electrolysis                 | 電解           |
| electrolyte                  | 電解質          |
| electrolyte scavenger        | 電解質清潔劑       |
| electrolytic cell            | 電解槽          |
| electrolytic cleaning        | 電解清潔法        |
| electrolytic copper          | 電解銅          |
| electrolytic de-rusting      | 電解去鏽         |
| electrolytic dissociation    | 電[解]離解       |
| electrolytic etching         | 電[解]浸蝕       |

|  |                   |
|--|-------------------|
| electrolytic etching                                       | 電解浸蝕；電解蝕刻         |
| electrolytic hardening                                     | 電[解]硬化            |
| electrolytic iron  | 電解鐵               |
| electrolytic pickling                                      | 電解浸洗              |
| electrolytic polishing                                     | 電解拋光              |
| electrolytic powder  | 電解粉末              |
| electrolytic protection                                    | 電解防蝕法             |
| electrolytic refining                                      | 電解精煉              |
| electrolytic solution tension                              | 電解溶壓              |
| electrolytic toughpitch copper                             | 電解韌煉銅             |
| electrolytical deposition                                  | 電解沉積              |
| electrolytical series                                      | 電解序列              |
| electromagnet  | 電磁體；電磁鐵           |
| electromagnetic forming                                    | 電磁成形              |
| electromagnetic lens                                       | 電磁透鏡              |
| electromagnetic resonance (EMR)                            | 電磁共振              |
| electromagnetic spectrum                                   | 電磁光譜              |
| electromagnetic suspension                                 | 電磁懸浮              |
| electromagnetic wave                                       | 電磁波               |
| electromechanical polishing                                | 電解機械拋光；電解研磨拋光     |
| electromechanical resonance                                | 機電共振              |
| electrometallurgy  | 電化冶金；電冶學          |
| electromigration   | 電遷移               |
| electromodulated infrared reflectance spectroscopy (EMIRS) | 電調控紅外反射光譜術        |
| electromotive force (emf)                                  | 電動勢               |
| electromotive series                                       | 電動勢序              |
| electron affinity  | 電子親和力             |
| Electron alloy   | 伊蘭鎂合金 { 含鋁鋅鎂基合金 } |
| electron balance   | 電子天秤              |
| electron beam  | 電子束               |



|  |               |
|--|---------------|
| electron beam evaporation                | 電子束蒸鍍法        |
| electron beam fabrication                | 電子束製造         |
| electron beam lithography                | 電子束石刻術；電子束微影術 |
| electron beam machining (EBM)            | 電子束加工；電刻      |
| electron beam melting (EBM)              | 電子束熔煉         |
| electron beam melting furnace            | 電子束熔煉爐        |
| electron beam recording (EBR)            | 電子束記錄法        |
| electron beam welding                    | 電子束熔接         |
| electron beam zone-refining              | 電子束區帶精煉       |
| electron biprism                         | 電子雙稜鏡         |
| electron cloud                           | 電子雲           |
| electron configuration                   | 電子組態          |
| electron cryomicroscope                  | 電子極冷顯微鏡       |
| electron cyclotron resonance             | 電子迴旋共振        |
| electron degeneracy pressure             | 電子簡併壓力        |
| electron diffraction                     | 電子繞射          |
| electron diffraction pattern             | 電子繞射圖         |
| electron energy loss spectroscopy (EELS) | 電子能量損失光譜術     |
| electron field emission                  | 電子場發射         |
| electron furnace iron                    | 電煉生鐵          |
| electron gun                             | 電子槍           |
| electron hole pair excitation            | 電子電洞對激發       |
| electron holography                      | 電子全像術         |
| electron hopping                         | 電子跳躍          |
| electron induced direct writing          | 電子誘發直接寫入      |
| electron induced X-ray spectroscopy      | 電子誘發 X 光光譜術   |
| electron island                          | 電子島           |
| electron lens                            | 電子透鏡          |
| electron liquid                          | 電子液相 { 模型 }   |

|  |                         |
|--|-------------------------|
| electron microscope                                | 電子顯微鏡                   |
| electron mobility                                  | 電子移動                    |
| electron negative potential                        | 電子負電位                   |
| electron optics                                    | 電子光學                    |
| electron pair                                      | 電子偶                     |
| electron paramagnetic resonance (EPR)              | 電子順磁共振                  |
| electron phonon relaxation                         | 電子聲子弛放                  |
| electron photomicrograph                           | 電子顯微照片                  |
| electron probe microanalyzer (EPMA)                | 電子探針顯微分析儀               |
| electron ratio                                     | 電子比                     |
| electron relaxation time                           | 電子弛放時間                  |
| electron Ronchigram                                | 電子隆奇圖                   |
| electron scattering                                | 電子散射                    |
| electron spectroscopy for chemical analysis (ESCA) | 電子能譜化學分析 { 同 X 光電子能譜術 } |
| electron spin                                      | 電子自旋                    |
| electron spin resonance (ESR)                      | 電子自旋共振                  |
| electron transfer mediator                         | 電子轉移介質                  |
| electron trap                                      | 電子阱                     |
| electron volt                                      | 電子伏特                    |
| electron wave                                      | 電子波                     |
| electronation                                      | 還原作用；增電子作用              |
| electron-dot notation                              | 電子點標記                   |
| electronegativity                                  | 陰電性                     |
| electron-hole dynamics                             | 電子電洞動力學                 |
| electronic ceramic                                 | 電子陶瓷                    |
| electronic charge                                  | 電子電荷                    |
| electronic conduction                              | 電子傳導；電子電導               |
| electronic countermeasure (ECM)                    | 電子反制[措施]                |
| electronic heat capacity                           | 電子熱容                    |
| electronic material                                | 電子材料                    |

|                                      |           |
|--------------------------------------|-----------|
| electronic polarization              | 電子極化      |
| electronic structure                 | 電子結構      |
| electronic switch                    | 電子開關      |
| electron-phonon coupling             | 電子聲子耦合    |
| electro-optic material               | 電光材料      |
| electro-osmosis                      | 電滲；電滲透作用  |
| electrophoresis                      | 電泳        |
| electrophoretic deposition           | 電泳沉澱      |
| electrophoretic mobility             | 電泳移動性     |
| electrophoretic plating              | 電泳鍍       |
| electroplating                       | 電鍍        |
| electro-polishing                    | 電解拋光      |
| electropositive potential            | 正電位       |
| electro-slag refining (ESR)          | 電渣精煉      |
| electroslag remelting process        | 電渣再熔法     |
| electroslag welding                  | 電渣熔接      |
| electro-smose                        | 電滲；電滲透作用  |
| electrospinning                      | 電紡        |
| electrostatic field imaging          | 靜電場成像     |
| electrostatic fluidized bed          | 靜電流體床     |
| electrostatic force microscopy (EFM) | 靜電力顯微術    |
| electrostatic mineral separation     | 靜電礦物分離    |
| electrostatic orientation            | 靜電導向      |
| electrostatic potential              | 靜電電位      |
| electrostatic potential              | 靜電位能；電動勢  |
| electrostatic precipitation          | 靜電沉澱      |
| electrostatic separation             | 靜電分離      |
| electrostatic spraying               | 靜電噴塗；靜電噴霧 |
| electrostriction                     | 電致伸縮      |
| electrothermal equivalent            | 電熱當量      |
| electrothermic method                | 電熱法       |

|                           |                           |
|---------------------------|---------------------------|
| electrotype               | 電鑄版                       |
| electro-type metal        | 電鑄版合金                     |
| electrotyping             | 電鑄版術                      |
| electrovalent compound    | 電價化合物                     |
| electrowetting            | 電潤溼                       |
| electrowinning            | 溼式電冶煉                     |
| elementary excitation     | 基本激發                      |
| elementary particle       | 基本粒子                      |
| elemi                     | 欖香脂                       |
| eleostearate              | 桐酸脂                       |
| eletrum                   | 白黃金 { 40-50%Au · 其餘為 Ag } |
| elevator kiln             | 升降窯                       |
| elinvar                   | 恆彈性鋼                      |
| elinvar property          | 恆彈性質                      |
| ellipsometer              | 橢圓偏光儀                     |
| elliptical instability    | 橢圓形不穩定性                   |
| elongation                | 伸長                        |
| Elphal                    | 依爾花法；鋼皮表面沉澱純鋁法            |
| eluant solution           | 洗滌液                       |
| elution                   | 洗析；溶析                     |
| elution analysis          | 洗析分析                      |
| elution test              | 沖出試驗                      |
| elutriation               | 淘析 { 液體中分離大小粉末顆粒的方法 }     |
| email sur bisque          | 素三彩                       |
| emaillieuen               | 插畫瑤瑯                      |
| embedded atom model (EAM) | 嵌入原子模型                    |
| embedded substrate        | 嵌入式基板                     |
| embedding                 | 嵌埋                        |
| embolism                  | 栓塞                        |
| embossing                 | 浮花壓製法；壓凸；壓紋；浮雕            |
| embrittlement             | 脆性                        |
| embryo                    | 胚胎 { 晶粒成核之起始 }            |

|                              |             |
|------------------------------|-------------|
| embryonic stem cell (ESC)    | 胚胎幹細胞       |
| emery                        | 金鋼砂；金剛粉；剛石粉 |
| emery cloth                  | [金鋼]砂布      |
| emery paper                  | [金鋼]砂紙      |
| emission                     | 排放；發射       |
| emission electron microscope | 發射電子顯微鏡     |
| emission level               | 排放程度        |
| emission polarization        | 發射偏振特性      |
| emission spectrum            | 發射光譜        |
| emissivity                   | 發射率；發射係數    |
| emitter                      | 射極          |
| empirical proportioning      | 經驗配合        |
| emulsified oil quenching     | 乳化油淬火       |
| emulsifier                   | 乳化劑         |
| emulsion                     | 乳化；乳液；乳膠    |
| emulsion cleaner             | 乳化清潔劑       |
| enamel                       | 琺瑯；搪瓷；瓷漆    |
| enamel coating               | 搪瓷護膜        |
| enamel color                 | 琺瑯色彩        |
| enamel glaze                 | 琺瑯釉         |
| enamel paint                 | 瓷漆          |
| enamelled iron ware          | 搪瓷[鐵]器      |
| enamelled wire               | 漆包線         |
| enamelling                   | 施琺瑯；搪瓷      |
| enamelling iron              | 搪瓷胎鐵        |
| enamine                      | 烯胺          |
| enanthic acid ester          | 庚酸酯         |
| enantiomer                   | 鏡相異構物       |
| enantiomorphous unit         | 鏡像單元        |
| encapsulated composite       | 囊封複合材料      |
| encapsulated nanoparticle    | 囊封奈米顆粒      |
| encapsulating matrix         | 包膜基質        |

|                            |                         |
|----------------------------|-------------------------|
| encapsulation              | 囊裝；封裝；包膠；瓷封             |
| enclosure                  | 夾雜物；包殼                  |
| encoustic tile             | 彩紋瓦                     |
| end arch                   | 端拱磚                     |
| end group                  | 端基                      |
| end point                  | 端點                      |
| end skew                   | 端斜磚                     |
| end wall                   | 端牆                      |
| end-cap functionalization  | 端冠官能基化                  |
| end-group analysis         | 端基分析                    |
| end-group determination    | 端基測定法                   |
| endocrine disruptor        | 內分泌干擾物                  |
| endocytosis                | 內噬作用                    |
| endoderm                   | 內胚層                     |
| endohedral fullerene       | 內嵌富勒烯                   |
| endoplasmic reticulum (ER) | 內質網                     |
| endosome escape            | 內小體脫離                   |
| endosseous implant         | 骨內植入物                   |
| endothelial                | 內皮                      |
| endothelial cell           | 內皮細胞                    |
| endothermic gas            | 吸熱型氣體 { 熱處理保護氣 }        |
| endothermic reaction       | 吸熱反應                    |
| endotoxins                 | 內毒素                     |
| endurance                  | 耐久性                     |
| endurance limit            | 疲勞極限                    |
| endurance ratio            | 疲勞比                     |
| endurance strength         | 疲勞強度                    |
| endurance test             | 耐久性試驗；疲勞試驗              |
| endurance testing          | 耐久性測試；疲勞測試              |
| Enduron                    | 安久樂合金 { 一種含鉻鉬矽之鐵系耐蝕合金 } |
| end-wheel press            | 端輪壓機                    |
| energizer                  | 促進劑 { 滲碳 }              |

|  |              |
|--|--------------|
| energy balance   | 能量平衡         |
| energy band  | 能帶           |
| energy band gap  | 能帶間隙         |
| energy band structure                                    | 能帶結構         |
| energy consumption                                       | 能源消耗         |
| energy content   | 能源含量         |
| energy conversion  | 能量轉換         |
| energy converter   | 能量轉化器        |
| energy cost  | 能源成本         |
| energy dispersive X-ray spectroscopy (EDX)               | 能量分散 X 光光譜術  |
| energy efficiency ratio                                  | 能效比          |
| energy efficient motor                                   | 省能馬達         |
| energy gap   | 能隙           |
| energy generator   | 能源產生器        |
| energy level   | 能階；能準位       |
| energy management  | 能源管理         |
| energy management system                                 | 能源管理系統       |
| energy packet  | 能束           |
| energy source  | 能源           |
| energy storage   | 能量儲存         |
| energy-filtered transmission electron microscopy (EFTEM) | 能量過濾穿透式電子顯微術 |
| Enfield rolling mill                                     | 恩菲德軋鋼機       |
| engineering alloy  | 工程合金         |
| engineering brick  | 工程磚          |
| engineering ceramic alloy                                | 工程陶金         |
| engineering ceramics                                     | 工程陶瓷         |
| engineering strain                                       | 工程應變         |
| engineering stress                                       | 工程應力         |
| engineering stress-strain curve                          | 工程應力應變曲線     |
| engine-turning lathe                                     | 機動車床         |
| English bond   | 英式砌法         |
| English crystal  | 高鉛水晶玻璃       |

|                                   |                            |
|-----------------------------------|----------------------------|
| English white                     | 白堊                         |
| engobe                            | 化粧土；釉底料                    |
| engravers brass                   | 刻版黃銅 { 一種含鉛黃銅 }            |
| engraving                         | 刻花；雕花                      |
| enriched uranium                  | 濃縮鈾                        |
| enrichment                        | 濃縮                         |
| enstatite                         | 頑火輝石                       |
| enteric coating                   | 腸溶衣                        |
| enthalpy                          | 焓                          |
| entrained air                     | 輸氣 { 混凝土 }                 |
| entrapped air                     | 陷入空氣 { 混凝土 }               |
| entropic spring                   | 熵彈簧                        |
| entropy                           | 熵                          |
| environment control               | 環境控制                       |
| environmental SEM (ESEM)          | 環境掃描式電子顯微鏡                 |
| enzymatic analysis                | 酵素性分析；酶性分析                 |
| enzymatic catalysis               | 酵素催化作用                     |
| enzymatic degradation             | 酵素降解                       |
| enzyme                            | 酵素；酶                       |
| enzyme-linked immunoassay (ELISA) | 酵素免疫分析法                    |
| e-paper                           | 電子紙                        |
| epidermal growth factor (EGF)     | 表皮生長因子                     |
| epifluorescence imaging           | 表層螢光成像                     |
| epifluorescence microscopy        | 表層螢光顯微術                    |
| epikeratophakia                   | 角膜移植術                      |
| epitaxial growth                  | 磊晶成長；疊晶生長；同軸生長 { 晶體 }      |
| epitaxial layer transfer (ELTRAN) | 磊晶層轉換                      |
| epithelium                        | 上皮                         |
| epithermal neutrons               | 超熱中子 { 具有在分裂中子與熱中子間能量之中子 } |
| epoxidation                       | 環氧化作用                      |
| epoxide                           | 環氧化物                       |

|                             |  |
|-----------------------------|--|
| epoxide (EO)                | 環氧乙烷   |
| epoxide equivalent          | 環氧當量   |
| epoxide group               | 環氧基  |
| epoxidized ester            | 環氧化酯   |
| epoxy                       | 環氧樹脂   |
| epoxy content               | 環氧含量   |
| epoxy ethylbenzene          | 環氧乙基苯  |
| epoxy resin                 | 環氧樹脂   |
| epoxy value                 | 環氧值  |
| epoxy-amine resin           | 環氧胺樹脂  |
| epsilon carbide             | $\epsilon$ 碳化物                                   |
| epsilon compound            | $\epsilon$ 化合物 { 電子比為 7:4 · 例如 $\text{CuZn}_3$ } |
| equations of state          | 狀態方程式  |
| equiaxial polygonal grain   | 等軸多角形晶粒  |
| equi-blast cupola           | 等吹熔鐵爐  |
| equicohesive temperature    | 等結合溫度 { 晶粒內晶粒界強度相等時之溫度 }                         |
| equigranular                | 等粒狀  |
| equilibrium                 | 平衡   |
| equilibrium diagram         | 平衡圖  |
| equilibrium phase diagram   | 平衡相圖   |
| equilibrium potential       | 平衡電位   |
| equilibrium segregation     | 平衡偏析   |
| equilibrium state           | 平衡狀態   |
| equivalence factor          | 當量因素   |
| equivalent circuit          | 等效電路   |
| equivalent section          | 等值斷面   |
| equivalent weight           | 當量   |
| erbium (Er)                 | 鉬  |
| erbium disilicide           | 二矽化鉬   |
| Erdey-Grzuz-Volmer reaction | 爾迪-克魯茲-沃謨反應                                      |
| Erichsen [cupping]test      | 愛理遜壓凹試驗  |
| Ermalite                    | 艾馬來鐵 { 高延性鑄鐵 }                                   |

|   |   |
|---|---|
| Ernst hardness tester                           | 恩氏硬度計                                   |
| erosion   | 沖蝕                                      |
| erosion resistance                              | 耐沖蝕性                                    |
| erosion-corrosion                               | 沖蝕-腐蝕                                   |
| error function                                  | 誤差函數                                    |
| error function                                  | 誤差函數 { 擴散等 }                            |
| erubescite                                      | 硫銅石 ; 斑銅礦 { $\text{Cu}_2\text{FeS}_3$ } |
| ester   | 酯                                       |
| esterification                                  | 酯化                                      |
| estrogen  | 雌激素                                     |
| etch band                                       | 浸蝕帶                                     |
| etch figure                                     | 蝕跡                                      |
| etch pit  | 蝕孔 { 差排 }                               |
| etchant   | 浸蝕液 ; 蝕刻液 ; 蝕刻劑                         |
| etching   | 蝕刻 ; 浸蝕                                 |
| etching pit                                     | 蝕孔                                      |
| ethanol   | 乙醇 ; 酒精                                 |
| ethanol fuel cell                               | 乙醇燃料電池                                  |
| ethanolysis                                     | 乙醇解                                     |
| ether   | 醚                                       |
| etherification                                  | 醚化                                      |
| ethyl cellulose (EC)                            | 乙基纖維素                                   |
| ethyl silicate                                  | 矽酸乙酯                                    |
| ethylene oxide sterilization                    | 環氧乙烷滅菌                                  |
| ethylene plant flue gas, hydrogen as by-product | 乙烯廠煙道氣                                  |
| ethylenediamine (EDA)                           | 乙二胺                                     |
| Ettinghausen effect                             | 埃丁赫遜效應 { 晶體之一種物理效應 }                    |
| eucryptite                                      | 鋰霞石                                     |
| Euler buckling force                            | 歐拉挫屈力                                   |
| Euler's constant                                | 歐拉常數                                    |
| Eureka  | 尤瑞卡銅 { 電阻線之一種, 近似康史登銅 }                 |
| europium (Eu)                                   | 鎔                                       |

|                          |                                 |
|--------------------------|---------------------------------|
| eutectic                 | 共晶；共熔物                          |
| eutectic alloy           | 共晶合金                            |
| eutectic carbide         | 共晶碳化物                           |
| eutectic cast iron       | 共晶鑄鐵                            |
| eutectic cell            | 共晶單胞                            |
| eutectic cementite       | 共晶雪明碳體；共晶雪明碳鐵                   |
| eutectic colony          | 共晶集團                            |
| eutectic composition     | 共晶組成                            |
| eutectic freezing        | 共晶冷凝                            |
| eutectic graphite        | 共晶石墨                            |
| eutectic mixture         | 共晶混合物                           |
| eutectic reaction        | 共晶反應                            |
| eutectic structure       | 共晶結構                            |
| eutectic system          | 共晶系                             |
| eutectic temperature     | 共晶溫度                            |
| eutectoid                | 共析                              |
| eutectoid alloy          | 共析合金                            |
| eutectoid alpha ferrite  | 共析 $\alpha$ 肥粒鐵；共析 $\alpha$ 肥粒體 |
| eutectoid cementite      | 共析雪明碳體；共析雪明碳鐵                   |
| eutectoid composition    | 共析成分                            |
| eutectoid ferrite        | 共析肥粒體；共析肥粒鐵                     |
| eutectoid hardening      | 共析硬化                            |
| eutectoid line           | 共析線                             |
| eutectoid point          | 共析點                             |
| eutectoid reaction       | 共析反應                            |
| eutectoid steel          | 共析鋼                             |
| eutectoid structure      | 共析組織                            |
| eutectoid temperature    | 共析溫度                            |
| eutectoid transformation | 共析轉變；共析變態                       |
| evanescent field         | 消逝場；衰減場                         |
| evaporant                | 蒸發劑                             |
| evaporated pyrolysis     | 蒸發熱解法                           |

|                                 |                 |
|---------------------------------|-----------------|
| evaporation coefficient         | 蒸發係數            |
| evaporation loss                | 蒸發損失            |
| evaporation rate                | 蒸發速率            |
| evaporation ratio               | 蒸發比             |
| evaporative efficiency          | 蒸發效率            |
| Everdur                         | 艾未狄合金 { 一種矽青銅 } |
| Ewald chart                     | 厄瓦特圖 { X-ray }  |
| Ewald method                    | 埃瓦爾德法           |
| Ewald sphere                    | 厄瓦特球 { 結晶 }     |
| exaggerated grain growth        | 晶粒過度成長          |
| excavator                       | 挖掘機             |
| excess enthalpy                 | 超額焓             |
| excess entropy                  | 超額熵             |
| excess free volume model        | 過自由體積模型         |
| exchange coupling               | 交換耦合            |
| exchange energy                 | 互換能             |
| exchange force                  | 互換力             |
| exchange force microscope (EFM) | 交換力顯微鏡          |
| exchange hardening              | 交換硬化            |
| exchange integral               | 交換積分            |
| exchange interaction            | 交換交互作用          |
| exchange parameter              | 交換參數            |
| exchange-current density        | 交換電流密度          |
| excimer laser                   | 準分子雷射           |
| excitation                      | 激發；激勵           |
| excited state                   | 激態              |
| excited-state quencher          | 激態抑制劑           |
| exciting level                  | 激勵準位            |
| exciton                         | 激子              |
| exciton Bohr radius             | 激子波爾半徑          |
| excitonic polarization          | 激子極化            |
| excitonic superradiance         | 激子超輻射           |
| excluded volume                 | 排斥體積            |

|  |                |
|--|----------------|
| exclusion principle                              | 不相容原理          |
| exergy   | 可用能；有效能量       |
| exfoliated clay                                  | 剝離黏土           |
| exfoliation                                      | 層脹；表皮脫落        |
| exhaustion creep                                 | 耗竭潛變           |
| exhaustion range                                 | 枯竭區            |
| exogenous metallic inclusion                     | 外來金屬夾雜物        |
| exonuclease                                      | 核酸外切酶          |
| exothermic reaction                              | 放熱反應           |
| exothermic-base atmosphere                       | 放熱式蒙氣；放熱式爐氣    |
| expanded metal                                   | 展成金屬 { 鈹合金 }   |
| expanded $\gamma$ -field                         | 擴張 $\gamma$ 區  |
| expanding metals                                 | 膨脹金屬 { 鈹合金 }   |
| expansion coefficient                            | 膨脹係數           |
| expansion factor                                 | 膨脹因子           |
| expansion scab                                   | 膨脹剝砂           |
| explosibility                                    | 爆炸性            |
| explosion properties, hydrogen/methane           | 爆炸特性,氫/甲烷      |
| explosion test                                   | 爆炸試驗           |
| explosion welding                                | 爆炸熔接           |
| explosive antimony                               | 爆炸銻            |
| explosive bonding                                | 爆炸接合；爆炸銲接      |
| explosive forming                                | 爆炸成形           |
| explosive pressing                               | 爆炸壓製           |
| extended X-ray absorption fine structure (EXAFS) | 延伸 X 光吸收精細結構   |
| extender   | 展劑             |
| extensibility                                    | 展性             |
| extension  | 展延             |
| extensive grain growth                           | 晶粒過度成長         |
| extensometer                                     | 伸長計            |
| extended dislocation                             | 擴展差排           |
| external reforming, MCFC                         | 外部重組,熔融碳酸鹽燃料電池 |

|   |                            |
|---|----------------------------|
| external upset                            | 向外鍛組件                      |
| external upset forging                    | 向外鍛粗                       |
| external upsetting                        | 向外鍛粗法                      |
| extinction coefficient                    | 消散係數                       |
| extinction coefficient                    | 消散係數；消光係數                  |
| extinction distance                       | 消散距離                       |
| extinction efficiency                     | 消散效率                       |
| extinction ratio                          | 消散比                        |
| extra light flint                         | 特輕燧石玻璃                     |
| extracellular matrix (ECM)                | 細胞外基質                      |
| extracorporeal                            | 體外                         |
| extracorporeal membrane oxygenator (ECMO) | 體外循環透膜氧合器；葉克膜              |
| extraction                                | 萃取                         |
| extraction replica                        | 萃取印模 { 電子顯微鏡 }             |
| extractive                                | 萃取物                        |
| extractive metallurgy                     | 提煉冶金學                      |
| extra-dense flint                         | 特重燧石玻璃                     |
| extra-hard cold work                      | 特硬級冷加工 { 冷軋至斷面縮小 50.0% }   |
| extrapolation of creep data               | 潛變數據外推法                    |
| extraproximity effect                     | 外延近似效應                     |
| extra-spring-hard cold work               | 特彈簧硬級冷加工 { 冷軋至斷面縮小 68.7% } |
| extraterrestrial application              | 外太空應用                      |
| extreme ultraviolet (EUV)                 | 極紫外光                       |
| extrinsic diffusion                       | 外質型擴散                      |
| extrinsic semiconduction                  | 外質半導體性；外致半導體性              |
| extrinsic semiconductor                   | 他激半導體；他導半導體                |
| extrudability                             | 擠製性；擠壓性                    |
| extrudate                                 | 擠出物                        |
| extruder                                  | 擠壓機                        |
| extruding                                 | 擠延                         |

|                   |                       |
|-------------------|-----------------------|
| extrusion         | 擠製；擠壓；擠型；凸出 { 疲勞滑動面 } |
| extrusion process | 擠製法；擠製過程              |
| ex-vivo test      | 活體外試驗 { 與活體連結 }       |
| eyelet            | 小孔                    |
| eyeleting         | 小眼圈                   |
| eyepiece          | 目鏡                    |



# F

|                              |               |
|------------------------------|---------------|
| Faber Du Faur retort         | 法普佛甌          |
| fabric                       | 織物            |
| fabricability                | 可製造性          |
| fabrication                  | 製造；打造；構製；組合   |
| face brick                   | 面磚            |
| face wall                    | 面牆            |
| face-centered cubic (f.c.c.) | 面心立方[體]       |
| face-centered cubic lattice  | 面心立方格子        |
| face-centered orthorhombic   | 面心斜方          |
| facet                        | 小面；刻面         |
| facience                     | 彩陶            |
| facing brick                 | 面磚            |
| facing sand                  | 面砂            |
| factor of safety             | 安全因數          |
| factor XIII                  | 第十三凝血因子       |
| fade-meter                   | 褪色測試儀         |
| fading                       | 褪色            |
| failure                      | 故障；破壞         |
| failure analysis             | 破壞分析；破損分析     |
| falling weight test          | 落重試驗          |
| false set                    | 假凝            |
| false twisting               | 假撚            |
| famille noire enamel         | 黑地彩           |
| famille rose                 | 胭脂紅；粉彩        |
| famille verte                | 綠地形           |
| fan law                      | 風機定律；風扇定律     |
| fan performance curve        | 風機性能曲線；風扇性能曲線 |
| Faradaic efficiency          | 法拉第效率         |
| Faraday                      | 法拉第 { 電荷單位 }  |
| Faraday constant             | 法拉第常數         |

|  |                     |
|--|---------------------|
| Faraday effect                               | 法拉第效應               |
| Faraday micrograph                           | 法拉第顯微圖              |
| Faraday's law                                | 法拉第定律               |
| far-field epifluorescence imaging microscopy | 遠場落射螢光成像顯微術         |
| far-field optics                             | 遠場光學                |
| fast breeder reactor                         | 快滋生反應；快增殖反應器        |
| fast neutron                                 | 快中子 { 能量超過 0.1MeV } |
| fat  | 脂肪                  |
| fat clay                                     | 富黏土                 |
| fat sand                                     | 高黏土砂                |
| fatigue                                      | 疲勞                  |
| fatigue corrosion                            | 疲勞腐蝕                |
| fatigue crack                                | 疲勞裂痕                |
| fatigue crack growth rate                    | 疲勞裂痕成長率             |
| fatigue crack propagation                    | 疲勞裂痕成長              |
| fatigue cracking                             | 疲勞破裂                |
| fatigue failure                              | 疲勞失效                |
| fatigue fracture                             | 疲勞破裂                |
| fatigue life                                 | 疲勞壽命                |
| fatigue limit                                | 疲勞限                 |
| fatigue notch factor                         | 疲勞凹痕因數              |
| fatigue resistance                           | 疲勞阻抗                |
| fatigue test                                 | 疲勞試驗                |
| fatigue test machine                         | 疲勞試驗機               |
| fatigue tester                               | 疲勞試驗機               |
| fatty acid                                   | 脂肪酸                 |
| faujasite                                    | 八面沸石                |
| fault  | 缺陷                  |
| fault-current interrupting capability        | 故障電流中斷能力            |
| fayalite                                     | 鐵橄欖石；鐵矽酸鹽           |
| faying surface                               | 接合面；待接合面            |
| F-center                                     | F-中心                |

|  |                                |
|--|--------------------------------|
| Feal                                   | 費爾合金 { 25%Al, 其餘為 Fe, 有良好制振性 } |
| feather brick                          | 簾箕磚                            |
| feather combing                        | 梳花                             |
| feather marking                        | 羽狀痕跡                           |
| Federal energy efficiency requirements | 聯邦能源效率要求                       |
| Federal power act                      | 聯邦電力法案                         |
| feed ring                              | 環冒口                            |
| feed riser                             | 冒口                             |
| feed water                             | 給水                             |
| feeder                                 | 加料機                            |
| feeder channel                         | 加料槽                            |
| feeder gate                            | 加料匣                            |
| feeding                                | 進料                             |
| feeding rod                            | 冒口攪棒                           |
| feldspar                               | 長石                             |
| feldspathic glaze                      | 長石釉                            |
| feldspathoid                           | 似長石                            |
| felsophyne                             | 矽長斑石                           |
| felspar                                | 長石                             |
| felt                                   | 毛毯                             |
| felting                                | 製毯                             |
| feltmetal                              | 金屬纖維氈                          |
| femoral head prostheses                | 人工股骨植入物                        |
| femtometer                             | 飛米 { 10 <sup>-15</sup> 米 }     |
| femtosecond                            | 飛秒 { 10 <sup>-15</sup> 秒 }     |
| fergusonite                            | 褐鈹鉍礦                           |
| fermentation                           | 發酵                             |
| Fermi distribution function            | 費米分佈函數                         |
| Fermi energy                           | 費米能量                           |
| Fermi level                            | 費米能階 { 原子 }                    |
| Fermi surface                          | 費米面 ; 費米表面 { 原子 }              |
| Fermi velocity                         | 費米速度                           |

|  |   |
|--|---|
| Fermi-Dirac distribution                 | 費米-狄拉克分佈  |
| fermium (Fm)                             | 鐳   |
| Fernichrome                              | 費里銘 { 一種能封入鉛玻璃內之材料, 含 37%Fe, 30%Ni, 25%Co, 8%Cr } |
| ferrari cement                           | 佛拿里水泥   |
| ferric oxide                             | 三氧化二鐵   |
| ferric-calcium-phosphorus oxide ceramics | 鐵-鈣-磷-氧化陶瓷  |
| ferrimagnet                              | 亞鐵磁石  |
| ferrimagnetic materials                  | 次鐵磁材料   |
| ferrimagnetic resonance                  | 次鐵磁共振 ; 亞鐵磁共振                                     |
| ferrimagnetism                           | 亞鐵磁性  |
| ferrite                                  | 肥粒鐵 ; 鐵氧磁體 ; 磁性氧化物                                |
| ferrite grain size                       | 肥粒鐵晶粒度  |
| ferrite martensite                       | 肥粒鐵形麻田散體  |
| ferritic cast iron                       | 肥粒鐵鑄鐵   |
| ferritic decarburized depth              | 脫炭層之肥粒鐵深度   |
| ferritic stainless steel                 | 肥粒鐵不鏽鋼  |
| ferro-alloy                              | 合金鐵   |
| ferro-boron                              | 硼鐵  |
| ferro-bronze                             | 鐵青銅 { 8%Fe, 0.7%Cr, 其餘為 Cu }                      |
| ferrocene polymer                        | 二(環戊二烯)亞鐵聚合物                                      |
| ferro-chrome                             | 鉻鐵  |
| ferrochrome-silicon                      | 矽鉻鐵   |
| ferrocyanide                             | 亞鐵氰化物 ; 鐵(II)氰化物                                  |
| ferroelasticity                          | 鐵彈性   |
| ferroelectric                            | 強電 ; 鐵電   |
| ferro-electric material                  | 鐵電材料 { 如 BaTiO <sub>3</sub> }                     |
| ferroelectricity                         | 鐵電性   |
| ferroelectricity                         | 強電性 ; 鐵電性   |
| ferrofluid                               | 鐵磁流體  |

|                                     |  |
|-------------------------------------|--|
| ferrograph                          | 磁滯儀  |
| ferrolum                            | 包鉛鋼  |
| ferromagnetic                       | 強磁；鐵磁                                      |
| ferromagnetic domain wall           | 鐵磁區壁                                       |
| ferromagnetic material              | 強磁材料；鐵磁材料                                  |
| ferromagnetic metal                 | 強磁金屬；鐵磁金屬                                  |
| ferromagnetic spinel                | 鐵磁性尖晶石                                     |
| ferromagnetism                      | 鐵磁性；強磁性                                    |
| ferromagnetism excitation mechanism | 鐵磁性激發機制                                    |
| ferromagnetism triplet              | 鐵磁性三重態；強磁性三重態                              |
| ferro-manganese                     | 錳鐵   |
| ferromanganese-silicon              | 矽錳鐵  |
| ferro-molybdenum                    | 鉬鐵   |
| Ferron                              | 福朗 { 含 35%Ni · 15%Cr · 其餘為鐵的一種抗氧化合金 }      |
| ferronickel                         | 鎳鐵   |
| ferro-phosphorus                    | 磷鐵   |
| ferro-resonant circuit              | 鐵磁諧振電路                                     |
| ferroselenium                       | 硒鐵 { FeSe }                                |
| ferro-silicon                       | 矽鐵   |
| ferrostan                           | 電鍍馬口鐵 { 鍍錫冷捲鋼 }                            |
| ferro-titanium                      | 鈦鐵   |
| ferro-tungsten                      | 鎢鐵   |
| ferrous alloy                       | 鐵合金  |
| ferrous material                    | 鐵系材料                                       |
| ferrous metallurgy                  | 鋼鐵冶金學                                      |
| ferrous oxide                       | 氧化亞鐵                                       |
| ferrous-ferric oxide                | 磁性氧化鐵 { Fe <sub>3</sub> O <sub>4</sub> }   |
| ferro-vanadium                      | 釩鐵   |
| ferrox cube                         | 軟磁鐵氧磁體族                                    |
| Ferry                               | 福里合金 { 一種含 55%Cu · 45%Ni 之高電阻材料 · 類似康史登銅 } |

|                                |                          |
|--------------------------------|--------------------------|
| Fery radiation pyrometer       | 費氏輻射高溫計                  |
| fetal bovine serum (FBS)       | 胎牛血清                     |
| fetal calf serum (FCS)         | 胎牛血清                     |
| fettling                       | 修坯；修整 { 鑄件加工前之修整；爐襯之修整 } |
| fiber                          | 纖維                       |
| fiber bonding                  | 纖維結著                     |
| fiber metal                    | 纖維金屬                     |
| fiber probe                    | 光纖探針                     |
| fiber pullout                  | 纖維拔出                     |
| fiber reinforced plastic (FRP) | 纖維強化塑膠；塑鋼                |
| fiber stress                   | 纖維應力                     |
| fiberfax                       | 岩絨；金剛纖維                  |
| fiberglass                     | 玻璃纖維                     |
| fibril                         | 原纖維                      |
| fibrillating                   | 原纖維化                     |
| fibrin                         | 纖維蛋白                     |
| fibrin sealant                 | 纖維蛋白粘合劑                  |
| fibrinogen                     | [血]纖維蛋白原                 |
| fibrinolysis                   | 纖維蛋白溶解                   |
| fibrinolytic agent             | 纖維蛋白溶解劑                  |
| fibroblast                     | 纖維母細胞                    |
| fibroin                        | 絲纖維蛋白；蠶絲蛋白               |
| fibronectin                    | 纖維連接蛋白                   |
| fibrous encapsulation          | 纖維包膜                     |
| fibrous falc                   | 纖維狀滑石                    |
| fibrous structure              | 纖維組織                     |
| ficin                          | 無花果酶                     |
| Fick's law                     | 菲克定律 { 擴散 }              |
| fictive temperature            | 虛擬溫度                     |
| field annealing                | 場退火 { 磁場、電場 }            |
| field batch weight             | 工地盤重                     |
| field control                  | 場控                       |

|   |               |
|---|---------------|
| field effect transistor (FET)                             | 場效應電晶體        |
| field emission display (FED)                              | 場發射顯示器        |
| field emission electron microscope                        | 場發射電子顯微鏡      |
| field emission gun  | 場發射槍          |
| field emission scanning Auger electron microscopy (FESAM) | 場發射掃描式歐傑電子顯微術 |
| field emission scanning electron microscopy (FESEM)       | 場發射掃描式電子顯微術   |
| field emission transmission electron microscopy (FETEM)   | 場發射穿透式電子顯微術   |
| field emitter   | 場發射體          |
| field evaporation   | 場蒸發           |
| field verification  | 現場驗證          |
| field-drain pipe  | 工地排水管         |
| field-induced anisotropy                                  | 場致異向性         |
| figured glass   | 壓花玻璃          |
| filament  | 長絲            |
| filament-winding process                                  | 纏繞成型法         |
| file hardness   | 銼刀硬度          |
| file test   | 銼痕試驗          |
| filiform corrosion  | 網狀腐蝕          |
| filler  | 填料；填充料；填充劑；鋸條 |
| filler metal  | 鋅填金屬          |
| filling   | 填充            |
| film  | [薄]膜          |
| film coating  | 塗膜            |
| film strength   | 乾釉強度；薄膜強度     |
| film test   | 薄膜試驗          |
| filter block  | 濾磚            |
| filter cake   | 濾餅            |
| filter candle   | 濾管            |
| filter cloth  | 濾布            |
| filter press  | 濾壓機           |

|                                  |            |
|----------------------------------|------------|
| filter sterilization             | 過濾滅菌法      |
| filtered cathodic arc deposition | 過濾式陰極電弧沉積  |
| filtered centrifugal separator   | 過濾式離心分離器   |
| filtration                       | 過濾         |
| fin                              | 條縫         |
| final set                        | 終凝         |
| fine aggregate                   | 細骨材        |
| fine gilt                        | 薄層鍍金       |
| fine grain                       | 細晶粒；細[顆]粒  |
| fine grinder                     | 細研機        |
| fine pearlite                    | 微粒波來鐵；細波來鐵 |
| fine wire                        | 細線         |
| fine-grained steel               | 細晶粒鋼       |
| fineness                         | 細度         |
| fineness modulus                 | 細度模數       |
| fineness of cement               | 水泥細度       |
| fine-pore structure              | 微孔結構       |
| fineness number                  | 粒度 { 鑄砂 }  |
| finger gate                      | 指形鑄口       |
| finial                           | 屋脊飾        |
| fining                           | 澄清         |
| finishability                    | 飾面難易度      |
| finished steel                   | 精煉鋼        |
| finishing die                    | 完成模        |
| finishing impression             | 完成型        |
| finishing machine                | 整面機        |
| finishing mill                   | 完成軋機       |
| finishing roll                   | 末軋棍        |
| finishing temperature            | 完成溫度       |
| finite element analysis          | 有限元素分析     |
| finite size effect               | 有限尺寸效應     |
| finite strain                    | 有限應變       |
| finite volume dilation           | 有限容膨脹      |

|                             |          |
|-----------------------------|----------|
| fire back                   | 墊[背]火磚   |
| fire box                    | 火箱       |
| fire brick                  | [耐]火磚    |
| fire chrome brick           | 燒鉻磚      |
| fire clay                   | 耐火泥      |
| fire crack                  | 熱裂       |
| fire cracking               | 熱裂       |
| fire finished               | 火修光      |
| fire magnesite-chrome brick | 燒鎂鉻磚     |
| fire mark                   | 火痕       |
| fire pillar                 | 火柱       |
| fire polished               | 火焰磨光     |
| fire proofing tile          | 防火瓦      |
| fire refining               | 火法精煉     |
| fire resistance             | 耐火性      |
| fire retardancy             | 滯燒性      |
| fire sand                   | 耐火砂      |
| fire welding                | 火熔接；高溫熔接 |
| fire-box steel              | 火箱鋼      |
| firebridge                  | 火壩       |
| firecaly                    | 火黏土      |
| fireclay brick              | 火黏土磚     |
| fired magnesite brick       | 燒鎂磚      |
| fireproof                   | 防火       |
| fire-retardant coating      | 滯燒塗膜     |
| firestone                   | [耐]火石    |
| firing                      | 燒成；燒製；點火 |
| firing expansion            | 燒製膨脹     |
| firing range                | 燒製範圍     |
| firing shrinkage            | 燒成收縮；燒縮  |
| firing temperature          | 燒成溫度     |
| first coat                  | 底漆；第一塗層  |
| first stage annealing       | 第一段退火    |
| first-order termination     | 一級終結作用   |

|                          |                 |
|--------------------------|-----------------|
| first-order transition   | 一級轉換            |
| firsts                   | 一級品             |
| Firth hardometer         | 費氏硬度計           |
| firty                    | 耐火性             |
| fish scale               | 鱗狀破面            |
| Fisher equation          | 費雪方程式           |
| fisheyes                 | 魚眼 { 因氫脆性之裂開面 } |
| fish-scale               | 鱗片              |
| fishtail                 | 魚尾式             |
| fission                  | 分裂              |
| fission fragment         | 分裂碎片            |
| fission poison           | 分裂毒物            |
| fission product          | 分裂產物            |
| fissionable material     | 可分裂材料           |
| fissium                  | 分裂碎片合金          |
| fitting                  | 配件              |
| fixation device          | 固定器             |
| fixed carbon             | 固定碳             |
| fixing agent             | 定色劑             |
| fixing block             | 受釘磚塊            |
| flabby cast              | 軟鑄物             |
| flagella                 | 鞭毛              |
| flagellar motor          | 鞭毛運動            |
| flagellin                | 鞭毛蛋白            |
| flagellum                | 鞭毛              |
| flake                    | 小片；裂紋；白疵        |
| flake graphite           | 片狀石墨            |
| flake graphite cast iron | 片狀石墨鑄鐵          |
| flaking                  | 剝落              |
| flame                    | 火焰              |
| flame aerosol synthesis  | 火焰氣溶膠合成         |
| flame annealing          | 火焰退火            |
| flame bonding            | 火焰接合            |
| flame cleaning           | 火焰清除法           |

|                           |                             |
|---------------------------|-----------------------------|
| flame cutting             | 火焰切割                        |
| flame hardening           | 火焰硬化                        |
| flame ionization detector | 火焰離子化偵檢器                    |
| flame photometer          | 焰度計                         |
| flame plating             | 焰鍍[法]                       |
| flame resistance          | 防焰性；抗火焰性                    |
| flame retardant           | 滯焰劑；滯火焰劑                    |
| flame scaling             | 焰烤鋅皮法                       |
| flame softening           | 火焰軟化                        |
| flame spectro fluorimetry | 火焰光譜分析                      |
| flame spraying            | 火焰噴塗                        |
| flame straightening       | 火焰矯直                        |
| flame strengthening       | 火焰強化                        |
| flame temperature         | 火燄溫度                        |
| flameless combustion      | 無焰燃燒                        |
| flame-plating             | 火焰塗層                        |
| flameproofing             | 防焰；防火焰                      |
| flame-spray coating       | 火焰噴塗膜                       |
| flame-spraying            | 焰噴[法]                       |
| flame-spread test         | 火焰散播試驗                      |
| flame-tempering           | 火焰回火                        |
| flammability              | 易燃性                         |
| flange                    | 凸緣                          |
| flapping 【of copper】      | 翻攪                          |
| flare bed                 | 發焰道                         |
| flare test                | 頂進定量變形試驗 { 與 drift test 同 } |
| flaring                   | 擴口                          |
| flash                     | 飛邊；溢邊；溢料；套色；閃光              |
| flash and fire point test | 閃點及燃點試驗                     |
| flash point               | 閃點                          |
| flash pyrolysis           | 瞬間熱解                        |
| flash radiography         | 閃爍放射性攝影                     |
| flash roasting            | 閃燃煨燒                        |

|                            |                             |
|----------------------------|-----------------------------|
| flash shield               | 溢邊護罩                        |
| flash spinning             | 瞬紡                          |
| flash wall                 | 閃火牆                         |
| flash welding              | 閃電熔接                        |
| flash-butt welding         | 閃電對頭熔接                      |
| flashing                   | 溢出；套色；閃光                    |
| flashover                  | 跨溢                          |
| flashover voltage          | 跨溢電壓                        |
| flask                      | 砂箱；燒瓶                       |
| flat                       | 扁鋼 { 1/8"-1/4 吋厚兩呎以內寬之捲鋼片 } |
| flat band potential        | 平[能]帶位能                     |
| flat bar                   | 扁條；扁條鋼                      |
| flat die                   | 平模[頭]                       |
| flat die hammer            | 平模鎚                         |
| flat dies                  | 平模                          |
| flat grain                 | 平紋                          |
| flat oil paint             | 無光油漆                        |
| flat panel display         | 平面顯示器                       |
| flat spotting              | 平點 { 輪胎 }                   |
| flat-bed press             | 平床壓機                        |
| flat-die forging           | 平模鍛造；平模鍛件                   |
| flat-plate design          | 平板設計                        |
| flattener                  | 矯平機具                        |
| flatting                   | 平整[法]                       |
| flat-ware                  | 淺皿                          |
| flavanthron yellow         | 陰丹士林黃                       |
| flax                       | 亞麻                          |
| flax shives                | 亞麻粗纖維                       |
| Flemish bond               | 法式砌法                        |
| flex cracking              | 撓曲破裂                        |
| flex strength              | 變形強度                        |
| flexibility                | 可撓性                         |
| flexible cellular material | 可撓性多孔物料                     |
| flexible display           | 可撓式顯示器                      |

|                               |               |
|-------------------------------|---------------|
| flexible polyion              | 可撓性聚離子        |
| flexoelectricity              | 撓電性           |
| flexographic inks             | 快乾油墨          |
| flexographic printing         | 快乾印刷          |
| flexural impact strength      | 撓衝試驗強度        |
| flexural impact test          | 撓衝試驗          |
| flexural property             | 撓曲性質          |
| flexural strength             | 撓曲強度；抗彎強度     |
| flexural test                 | 撓曲試驗          |
| flexure test                  | 彎曲試驗          |
| flint                         | 燧石；火石         |
| flint clay                    | 燧石黏土          |
| flint glass                   | 燧石玻璃；火石玻璃     |
| flint shot                    | 燧石粒           |
| flip chip                     | 覆晶            |
| flip chip on flex (FCOF)      | 覆晶軟板構裝        |
| float glass process           | 浮製玻板法         |
| float test index              | 浮游試驗指數        |
| floater                       | 浮舟            |
| floating agent                | 浮劑            |
| floating die                  | 浮動模           |
| floating zone crystal growing | 浮融帶晶體生長法      |
| floating-zone refining        | 浮融帶純化         |
| floc test                     | 凝體試驗          |
| flocculant                    | 凝聚劑           |
| flocculation                  | 凝聚；絮凝         |
| flock coating                 | 植絨            |
| flong                         | 紙型 { 活字版鑄版用 } |
| flood casting                 | 洩注法           |
| floor brick                   | 地磚            |
| floor molding                 | 地模法           |
| floor tile                    | 地磚            |
| Flory equation                | 弗洛里方程式        |
| Flory-Huggins constant        | 弗洛里-赫金斯常數     |

|                                  |            |
|----------------------------------|------------|
| Flory-Krigbaum theory            | 弗洛里-克里格堡理論 |
| Flory-Rehner equation            | 弗洛里-瑞樂方程式  |
| Flory's spherical polyion theory | 弗洛里球狀多離子理論 |
| flotation                        | 浮選[作用]     |
| flourescent lamp                 | 螢光燈        |
| flow                             | 流動         |
| flow agent                       | 助流劑        |
| flow birefringence               | 流動雙折射      |
| flow blue                        | 流青         |
| flow brightening                 | 亮錫法        |
| flow coating                     | 流動塗膜；淋塗    |
| flow control                     | 流動控制       |
| flow field                       | 流場         |
| flow index                       | 流動指數       |
| flow line                        | 加工流程；鍛造流線  |
| flow line network                | 流線網；流程網    |
| flow machine                     | 致流機        |
| flow modifier                    | 調流劑        |
| flow off                         | 溢流口        |
| flow promoter                    | 促流劑        |
| flow property                    | 流動性質       |
| flow rate                        | 流動速率；流速    |
| flow spinning                    | 流動紡絲       |
| flow stress                      | 流變應力；變形應力  |
| flow table                       | 流度台        |
| flow test                        | 流度試驗       |
| flow through                     | 溢流道        |
| flow welding                     | 熔流熔接       |
| flowability                      | 流動性        |
| flowability of sand              | 鑄砂流動性      |
| flowcytometer                    | 流式細胞儀      |
| fluctuating dipole bond          | 波動偶極鍵      |
| fluctuating stress               | 波動應力       |
| flue gas                         | 煙道氣        |

|   |                    |
|---|--------------------|
| fluid loss  | 流體損耗               |
| fluid-energy mill                                 | 研磨機                |
| fluidity  | 流動性                |
| fluidity index                                    | 流動性指數              |
| fluidization                                      | 流體化                |
| fluidized bed                                     | 流體化床；流體床           |
| fluidized bed reactor                             | 流體化床反應器            |
| fluidized sand                                    | 流動性鑄砂；流砂           |
| fluidized sand molding                            | 流動性鑄砂造模法；流砂造模法     |
| fluidized-bed coating                             | 流體床法護膜             |
| fluid-jet texturing                               | 流噴織理               |
| Fluon   | 氟羅央 { PTEE 的商業名稱 } |
| fluoral   | 三氟甲醛               |
| fluorescein                                       | 螢光黃 { 螢光素 }        |
| fluorescence                                      | 螢光                 |
| fluorescence analysis                             | 螢光分析               |
| fluorescence dye                                  | 螢光染料               |
| fluorescence imaging                              | 螢光影像               |
| fluorescence particle inspection                  | 螢光顆粒檢驗             |
| fluorescence resonance energy transfer (FRET)     | 螢光共振能量轉移           |
| fluorescence resonance energy transfer efficiency | 螢光共振能量轉移效率         |
| fluorescence spectroscopy                         | 螢光光譜學(術)           |
| fluorescent brightener                            | 螢光增亮劑              |
| fluorescent lamps                                 | 螢光燈泡               |
| fluorescent material                              | 螢光材料               |
| fluorescent penetrant test                        | 螢光透入劑試驗            |
| fluorimetric characterization                     | 螢光特性分析；螢光特徵分析      |
| fluorinated alkoxy polyphosphazene                | 氟烷氧基聚磷腈            |
| fluorinated polymer                               | 氟化聚合物              |
| fluorine-containing polymer                       | 含氟聚合物              |

|                                   |                     |
|-----------------------------------|---------------------|
| fluorine-substituted polystyrenes | 氟取代聚苯乙烯             |
| fluorite                          | 螢石                  |
| fluorite crystal structure        | 螢石晶體結構              |
| fluoroalkoxy polyphosphazene      | 氟烷氧基聚磷腈             |
| fluoroboric acid                  | 氟硼酸                 |
| fluorocarbon polymer              | 氟碳高分子               |
| fluorocarbon polymer              | 氟碳化物高分子             |
| fluorochemical                    | 含氟化合物               |
| fluorodeoxy cellulose             | 氟化去氧纖維素             |
| fluoroelastomer                   | 含氟彈性體               |
| fluoroepoxide                     | 氟化環氧化物              |
| fluronucleotide                   | 氟核甘酸                |
| fluoroprotein                     | 氟蛋白                 |
| fluoroscopy                       | 螢光分析術               |
| fluorspar                         | 螢石                  |
| flush quenching                   | 閃激淬火                |
| flux                              | 助熔劑；焊劑；熔劑；通量 { 磁電 } |
| flux equation                     | 通量方程式               |
| flux factor                       | 助熔劑因數               |
| flux line                         | 玻膏面                 |
| flux-covering                     | 熔劑覆蓋                |
| fluxing                           | 熔劑處理                |
| fly ash                           | 飛灰                  |
| flying arch                       | 浮拱                  |
| flying saw                        | 隨動鋸機                |
| flying shear                      | 飛輪剪機                |
| flying spot microscope            | 飛點式顯微鏡              |
| flywheel impact machine           | 飛輪衝擊機               |
| foam                              | 發泡體                 |
| foam concrete                     | 泡沫混凝土               |
| foam glass                        | 泡沫玻璃                |
| foamed clay                       | 起泡黏土                |
| foamed concrete                   | 起泡混凝土               |



|                                    |                              |
|------------------------------------|------------------------------|
| foamed polymer                     | 發泡聚合物                        |
| foaming                            | 發泡                           |
| focal adhesion complex             | 焦點附著複合體                      |
| focal contact                      | 焦點接觸                         |
| focus                              | 焦點                           |
| focused ion beam (FIB)             | 聚焦離子束                        |
| fog quenching                      | 噴霧淬火                         |
| foil                               | 箔                            |
| foil heat treatment                | 箔袋熱處理                        |
| fold                               | 摺疊；摺痕                        |
| fold period                        | 摺疊週期                         |
| fold plane                         | 摺疊面                          |
| folded configuration               | 摺疊組態                         |
| folded-chain crystal               | 摺鏈晶體                         |
| folded-chain lamella               | 摺鏈片晶                         |
| folding defect                     | 摺疊瑕疵                         |
| follow board                       | 嵌模板                          |
| Food and Drug Administration (FDA) | 美國食品與藥品管理局                   |
| fool's gold                        | 愚人金 { 黃鐵礦 FeS <sub>2</sub> } |
| foot-candle level                  | 呎燭光等級                        |
| footing                            | 基腳                           |
| Foppl test                         | 福貝耳[硬度]試驗                    |
| forbidden band                     | 禁帶 { 厚子 }                    |
| force drying                       | 強制乾燥                         |
| force modulation mode              | 力調變模式                        |
| forced draft                       | 強制通風                         |
| forced gas convection              | 強制氣對流                        |
| fore blow                          | 前期吹風                         |
| fore hand welding                  | 前進熔接                         |
| fore hearth                        | 前爐                           |
| foreign atom                       | 外來原子                         |
| foreign-body reaction              | 異物反應                         |
| foreign-body response              | 異物回應                         |

|                             |   |
|-----------------------------|---|
| forge hammer                | 鍛鎚  |
| forge iron                  | 鍛鐵  |
| forge roll                  | 鍛輥  |
| forge welding               | 鍛造熔接；鍛接                                   |
| forgeability                | 鍛造性                                       |
| forged steel                | 鍛鋼  |
| forging                     | 鍛造；鍛件                                     |
| forging die                 | 鍛模  |
| forging hammer              | 鍛鎚  |
| forging machine             | 鍛機  |
| forging press press         | 鍛造壓機                                      |
| fork                        | 鐵叉  |
| form                        | 模板  |
| formability                 | 成形性                                       |
| formaldehyde                | 甲醛  |
| formation heat              | 生成熱                                       |
| formic acid                 | 甲酸  |
| forming                     | 成形；成型                                     |
| Formvar film                | 馮瓦薄膜 { 聚乙烯醇縮<br>甲醛薄膜 }                    |
| Forrester flotation machine | 富爾斯特浮選機                                   |
| Forster radius              | 弗斯特半徑                                     |
| forsterite                  | 鎂橄欖石 { Mg <sub>2</sub> SiO <sub>4</sub> } |
| forward bias                | 順向偏壓                                      |
| forward extrusion           | 順向擠製                                      |
| forward spinning            | 順向旋擠                                      |
| forward welding             | 前進熔接                                      |
| fossile fuels               | 化石燃料                                      |
| Foucault mode magnetism     | 傅科模態磁性                                    |
| fouling                     | 污垢  |
| fouling resistance          | 防垢性 { 船底 }                                |
| foundation                  | 基礎  |
| founder                     | 鑄工  |
| founding                    | 澆鑄  |

|  |                      |
|--|----------------------|
| foundry  | 鑄造；鑄造工場；半導體工廠        |
| foundry coke                                   | 鑄焦                   |
| foundry defect                                 | 鑄疵                   |
| foundry ladle                                  | 鑄造澆斗；鑄造盛桶            |
| foundry loss                                   | 鑄造損耗                 |
| foundry pig                                    | 鑄造生鐵                 |
| foundry pig iron                               | 鑄造用生鐵                |
| foundry return                                 | 回爐料                  |
| foundry sand                                   | 鑄砂                   |
| foundry type metal                             | 手植活字合金               |
| four-high mill                                 | 四輓軋機；四重式軋機           |
| Fourier transform infrared spectroscopy (FTIR) | 傅立葉轉換紅外光譜術 (FTIR)    |
| Fourier transformation                         | 傅利葉轉換                |
| Fowler-Nordheim law                            | 弗勒-諾德翰姆定律            |
| fractal  | 碎形                   |
| fractal cluster                                | 碎形團簇                 |
| fractional elution                             | 分餾洗析                 |
| fractionating column                           | 分餾柱                  |
| fractionation                                  | 分餾                   |
| fractography                                   | 斷口型像學                |
| fracture                                       | 破裂                   |
| fracture                                       | 破斷；破裂；破壞             |
| fracture mechanics                             | 破壞力學；破斷力學；破裂力學       |
| fracture stress                                | 破斷應力；破裂應力            |
| fracture surface                               | 破斷面；破裂面              |
| fracture test                                  | 破斷試驗；破裂試驗；破壞試驗       |
| fracture toughness                             | 破斷韌性；破裂韌性            |
| fracture toughness test                        | 破斷韌性測試；破裂韌性測試；破壞韌性測試 |
| fracture transition                            | 破斷轉換[溫度]             |
| frame filter press                             | 框式壓濾機                |
| frame work structure                           | 構架結構                 |
| framework structure                            | 網絡結構                 |

|  |                   |
|--|-------------------|
| francium (Fr)                          | 銨                 |
| Frank partial dislocation              | 法蘭克部份差排           |
| frankincense                           | 乳香                |
| Frank-Read source                      | F-R 源[法-瑞差排源]     |
| Frank-van der Merwe growth             | 富蘭克-凡得馬哲成長        |
| Frary metal                            | 法拉銀合金 { 一種鉛鎢銀合金 } |
| free carbon                            | 游離碳               |
| free cementite                         | 游離雪明碳鐵            |
| free cutting brass                     | 易切黃銅              |
| free cutting bronze                    | 易切青銅              |
| free cutting steel                     | 易切鋼               |
| free electron                          | 自由電子              |
| free energy                            | 自由能               |
| free ferrite                           | 游離肥粒鐵             |
| free jet expansion                     | 自由噴射擴張            |
| free lime                              | 游離石灰              |
| free radical                           | 自由基               |
| free volume                            | 自由體積              |
| free water                             | 游離水份              |
| free-flow bender                       | 開放式彎曲模；開放式彎曲機     |
| free-radical reaction                  | 自由基反應             |
| freeze drying                          | 冷凍乾燥              |
| freeze-casting                         | 冷凍澆注法             |
| freeze-dried demineralized bone (FDDB) | 脫鈣冷凍乾燥骨 (FDDB)    |
| freeze-dried method                    | 冷凍乾燥法             |
| freeze-thaw additive                   | 解凍添加物             |
| freezing                               | 冷凝；凍結；凝固          |
| freezing and thawing test              | 凍結融解試驗            |
| freezing curve                         | 冷凝曲線              |
| freezing method                        | 冷凝法               |
| freezing point                         | 凝固點；冰點            |
| freezing range                         | 凝固範圍              |

|                                 |  |
|---------------------------------|--|
| freezing-point depressant       | 冰點抗凍劑  |
| French chalk                    | 法蘭西白堊 { 即滑石 $3\text{MgO} \cdot 4\text{SiO}_2 \cdot \text{H}_2\text{O}$ } |
| French metal                    | 法蘭西金屬 { 一種精煉銻 }  |
| French process                  | 法蘭西法 { 一種提煉氧化鋅 zinc oxide 法 }  |
| Frenkel defect                  | 佛蘭克缺陷 { 晶格缺陷 }   |
| Frenkel disorder                | 弗侖克爾缺陷   |
| frequency factor                | 頻率因子 { 擴散 }  |
| fresh water                     | 淡水   |
| Fresnel contrast                | 菲涅耳對比  |
| fretling corrosion              | [緊壓]磨蝕; 移擦腐蝕   |
| friction                        | 磨擦   |
| friction coefficient            | 磨擦係數   |
| friction element                | 摩擦元件   |
| friction force microscopy (FFM) | 摩擦力顯微術   |
| friction oxidation              | 摩擦氧化   |
| friction press                  | 摩擦式壓機  |
| friction property               | 磨擦性質   |
| friction sawing                 | 摩擦鋸切   |
| friction screw press            | 摩擦螺桿壓機   |
| friction welding                | 摩擦熔接   |
| frictional behavior             | 磨擦行為   |
| frictional damping              | 磨擦阻尼   |
| frictional factor               | 磨擦因子   |
| frictional heat                 | 磨擦熱  |
| frictional loss                 | 摩擦損耗   |
| friction-screw press            | 摩擦螺旋式壓機  |
| Friedel-Crafts catalyst         | 菲克觸媒   |
| Friedel's model                 | 夫里德耳模型   |
| Friedel's sum rule              | 夫里德耳求和定則   |
| fringe                          | 暈紋   |
| fringe order                    | 穗狀規則   |
| fringed-fibril structure        | 穗狀原纖維結構  |

|                           |   |
|---------------------------|---|
| fringed-fibril theory     | 穗狀原纖維理論   |
| fringed-micelle model     | 穗狀微束模型  |
| fringed-micelle theory    | 穗狀微束理論  |
| frit                      | 熔塊; 玻料  |
| fritted glass ware        | 玻釉玻璃器   |
| fritted glaze             | 熟釉; 玻料釉   |
| fritted porcelain         | 玻料瓷   |
| fritting                  | 燒結 { 同 sintering } ; 上釉料  |
| frizzling                 | 縐縮  |
| Fröhlich coupling         | 佛洛里耦合   |
| front slagging            | 前渣法   |
| frontal analysis          | 前端分析; 前沿分析  |
| frontier alloy            | 佛蘭提合金 { 一種鋁鋅合金 }  |
| frost glass               | 磨砂玻璃  |
| froth flotation           | 泡沫浮選  |
| frustrated tunneling      | 受抑[光]穿隧   |
| Fry's reagent             | 傅蕊試劑 { $90\text{gm CuCl}_2 + 120\text{cc HCl} + 100\text{cc H}_2\text{O}$ } |
| fuel                      | 燃料  |
| fuel additive             | 燃料添加劑   |
| fuel carriers             | 燃料載體  |
| fuel cell                 | 燃料電池  |
| fuel cell systems         | 燃料電池系統  |
| fuel cell vehicles (FCV)  | 燃料電池車   |
| fuel contribution test    | 燃料供給試驗  |
| fuel crossover            | 燃料交錯穿越; 燃料交越  |
| fuel cycle                | 燃料循環  |
| fuel element              | 燃料元件  |
| fuel fabrication          | 燃料製造  |
| fuel gas treatment system | 燃氣處理系統  |
| fuel inflation            | 燃料膨脹  |
| fuel materials            | 燃料材料  |
| fuel oil                  | 燃料油   |

|   |                 |
|---|-----------------|
| fuel processing                           | 燃料製程            |
| fuel ratio                                | 燃料比             |
| fuel reprocessing                         | 燃料再處理           |
| fuel system                               | 燃料系統            |
| fuel utilization                          | 燃料利用            |
| fuel-to-electricity conversion efficiency | 燃料-電力轉換效率       |
| fugacity                                  | 揮發度；揮發性         |
| fugacity                                  | 揮發度；揮發性         |
| full annealing                            | 完全退火            |
| full hardening                            | 完全硬化            |
| full insert                               | 整體嵌件            |
| full mold process                         | 全模法             |
| fuller                                    | 半圓型鎚            |
| fuller earth                              | 漂白土             |
| fullerene                                 | 富勒烯             |
| fullerene filled nanotube                 | 富勒烯填充奈米管        |
| fullering                                 | 斂縫；填隙           |
| fullering bar                             | 填隙棒             |
| fullering impression                      | 斂縫型             |
| Fuller's ideal curve                      | 富樂理想曲線          |
| full-mould casting process                | 全模鑄造法           |
| fully-killed steel                        | 全靜鋼             |
| fulminate                                 | 雷酸鹽 { 不穩定易爆材料 } |
| fulvic acid                               | 黃腐酸             |
| fumaric acid                              | 丁烯二酸            |
| fume                                      | 煙氣              |
| functional group                          | 官能基             |
| functional nanoparticle                   | 功能性奈米顆粒         |
| functional nanostructure                  | 功能性奈米結構         |
| functional-group analysis                 | 官能基分析           |
| functionality                             | 官能度；官能性         |
| fundamental vector                        | 基本向量            |

|                              |                 |
|------------------------------|-----------------|
| fundation translation vector | 基本平移向量          |
| funerary ware                | 明器              |
| fungicidal soap              | 殺菌皂             |
| fungicide                    | 殺菌劑             |
| fungus                       | 黴菌              |
| furan polymer                | 呋喃聚合物           |
| furnace                      | 爐               |
| furnace lining               | 爐襯              |
| fused alloy                  | 易熔合金            |
| fused alumina                | 熔凝鋁氧            |
| fused pyrometer              | 融點高溫計           |
| fused quartz                 | 熔凝石英            |
| fused sand                   | 熔砂              |
| fused silica                 | 熔矽石；石英玻璃        |
| fused zone                   | 熔融帶             |
| fused-cast refractory        | 熔鑄耐火材           |
| fused-salt electrolysis      | 熔鹽電解            |
| fused-silica brick           | 熔凝矽磚            |
| fused-silica refractory      | 熔凝矽質耐火材         |
| fuse-quench process          | 熔化急冷法           |
| fusion                       | 熔化；熔解；熔合 { 核子 } |
| fusion casting               | 熔注法             |
| fusion of packing material   | 填料熔合            |
| fusion penetration           | 熔融穿入            |
| fusion point                 | 熔融點             |
| fusion range                 | 熔融區             |
| fusion sawing                | 熔融鋸             |
| fusion temperature           | 熔融溫度            |
| fusion welding               | 熔融熔接            |
| fusion-cast ceramics         | 熔鑄陶瓷            |
| fusion-flow test             | 熔流試驗            |
| fuzzy texture                | 疏鬆結構            |

# G

|                                    |                  |
|------------------------------------|------------------|
| gable tile                         | 山牆瓦              |
| gable wall                         | 投料牆              |
| gadget                             | 支架               |
| gadolinium (Gd)                    | 釷                |
| gage                               | 量規；號規 { 線或板 }；樣板 |
| gage length                        | 標距               |
| gagger                             | 撐條               |
| gaging                             | 規測               |
| galactomannan                      | 半乳甘露聚糖           |
| galacturonan methyl ester          | 半乳糖醛酸甲基酯         |
| galena                             | 方鉛礦 { PbS }      |
| gall                               | 浮硝               |
| galleting                          | 碎瓦片              |
| galling                            | [壓緊面間]擦傷；吸住；緊貼   |
| gallium (Ga)                       | 鎘                |
| gallium antimonide                 | 銻化鎘 { GaSb }     |
| gallium arsenide                   | 砷化鎘 { GaAs }     |
| gallium phosphide                  | 磷化鎘 { GaP }      |
| gallo tannin acid                  | 沒食子酸             |
| galvanic action                    | 伽凡尼電池效應          |
| galvanic cell                      | 化學電池             |
| galvanic corrosion                 | 電池腐蝕；電流腐蝕        |
| galvanic deposit                   | 電[池性]沉積          |
| galvanic electrochemical generator | 伽凡尼電化學產生器        |
| galvanic potential                 | 電蝕電位             |
| galvanic series                    | 電蝕序              |
| galvanic-fuel cell hybrids         | 伽凡尼-燃料電池混合電池     |
| galvanized iron                    | 鍍鋅鐵              |
| galvanized steel                   | 鍍鋅鋼材             |
| galvanized steel sheet             | 鍍鋅鋼片             |

|   |                               |
|---|-------------------------------|
| galvanized steel wire                                 | 鍍鋅鋼絲                          |
| galvanizing   | 鍍鋅法                           |
| galvanizing embrittlement                             | 鍍鋅脆性                          |
| galvannealing   | 鍍鋅退火                          |
| galvanostatic intermittent titration technique (GITT) | 恆電流間歇式滴定技術 (GITT)             |
| galvanostatic polarization curve                      | 電流恆定極化曲線                      |
| gamma brass   | γ黃銅；加馬黃銅                      |
| gamma dispersion                                      | γ色散；加馬色散                      |
| gamma fluoroscopy                                     | 加馬射線螢光照相檢驗                    |
| gamma iron  | γ鐵；加馬鐵                        |
| gamma loop  | γ區；加馬區 { 鋼鐵相圖 }               |
| gamma radiation                                       | γ輻射；加馬輻射                      |
| gamma solid solution                                  | 加馬固溶體                         |
| gamma structure                                       | 加馬結構                          |
| gamma-radiography                                     | γ放射攝影術；加馬放射攝影術                |
| gamma-ray   | γ射線；加馬射線 { 波長小於 0.5Å 之電磁輻射線 } |
| ganglion cell   | 神經節細胞                         |
| gangue  | 母岩；脈石                         |
| ganister  | 緻密砂岩；砂石                       |
| ganister rock   | 石英                            |
| gap frame press                                       | 弓架壓機                          |
| gap grading   | 不連續粒度                         |
| gap junction  | 間隙連接                          |
| Gardner mobilometer                                   | 賈得納流動度計                       |
| Gareis-Endell plastometer                             | 賈恩塑性計                         |
| garnet  | 石榴石                           |
| garnet lac  | 石榴松膠                          |
| gas   | 氣體                            |
| gas (phase) condensation                              | 氣相凝結                          |
| gas adsorption method                                 | 氣體吸附法                         |

|                              |                |
|------------------------------|----------------|
| gas bubble                   | 氣泡             |
| gas carburizing              | 氣體滲碳法          |
| gas centrifuge process       | 氣體離心法          |
| gas chromatographic analysis | 氣相色層分析         |
| gas chromatography           | 氣相色層分析術；氣相層析術  |
| gas classification           | 氣體分級法          |
| gas coke                     | 煤氣焦炭           |
| gas concrete                 | 充氣混凝土          |
| gas constant                 | 氣體常數           |
| gas cutting                  | 氣體切割           |
| gas cyaniding                | 氣體氰化法 { 碳氮處理 } |
| gas deposition fabrication   | 氣相沉積製造         |
| gas diffusion electrode      | 氣體擴散電極         |
| gas diffusion layer          | 氣體擴散層          |
| gas diffusion process        | 氣體擴散法          |
| gas fired boiler             | 燃氣鍋爐           |
| gas foaming                  | 氣體發泡           |
| gas hole                     | 氣孔             |
| gas law                      | 氣體定律           |
| gas manifold                 | 氣體歧管           |
| gas permeability             | 透氣性            |
| gas permeability constant    | 透氣常數           |
| gas permeation               | 氣體滲透           |
| gas phase                    | 氣相             |
| gas phase synthesis          | 氣相合成           |
| gas pickling                 | 氣體浸漬法          |
| gas porosity                 | 氣體孔隙率          |
| gas pressure bonding         | 氣壓連結法          |
| gas pressure sintering       | 氣體壓力燒結         |
| gas purification             | 氣體純化           |
| gas quenching                | 氣體淬火           |
| gas tar                      | 煤氣焦油；煤氣瀝青      |

|                              |                      |
|------------------------------|----------------------|
| gas temperature ranges       | 氣體溫度範圍               |
| gas welding                  | 氣體銲接；氣焰銲接            |
| gas-cooled reactor           | 氣體冷卻反應器              |
| gasification                 | 氣化                   |
| gasifier                     | 氣化爐；氣化器              |
| gasket                       | 墊圈                   |
| gasket corrosion             | 罅隙腐蝕                 |
| gasoline                     | 汽油                   |
| gasoline battery combination | 汽電混合                 |
| gas-shielded arc welding     | 氣護電弧銲接               |
| gassing of copper            | 銅之汽損                 |
| gassy surface                | 疏鬆結構                 |
| gasturbine                   | 燃氣渦輪機                |
| gate                         | 進模口；閘；閘門             |
| gate stick                   | 澆道棒                  |
| gather                       | 取料                   |
| gather hole                  | 取料口                  |
| gating                       | 加閘                   |
| gating nozzle                | 加閘噴嘴                 |
| gating system                | 澆注系統                 |
| gauche conformation          | 間扭式構形                |
| Gaudin's equation            | 高丁方程式                |
| gauge                        | 規；量規；錶；號規 { 線或板 }；樣板 |
| gauge factor                 | 標距因數                 |
| gauge length                 | 標距                   |
| gauging of cement            | 水泥稠度標準化              |
| Gauss                        | 高斯 { 磁感應或磁場強度單位 }    |
| Gauss                        | 高斯                   |
| Gaussian error function      | 高斯誤差函數               |
| Gazal process                | 蓋撒製程                 |
| gear bronze                  | 齒輪青銅                 |
| Geiger counter               | 蓋格計數器                |
| Geiger-Mueller counter       | 蓋格-密勒計數器             |

|                               |           |
|-------------------------------|-----------|
| gel                           | 凝膠；乳膠體    |
| gel coat                      | 凝膠塗層      |
| gel effect                    | 凝膠效應      |
| gel filtration                | 凝膠過濾      |
| gel formation                 | 凝膠形成      |
| gel permeation chromatography | 凝膠滲透層析術   |
| gel point                     | 凝膠點       |
| gelatin                       | 明膠；動物膠    |
| gelatine                      | 明膠        |
| gelatinization                | 膠化        |
| gelatinization temperature    | 膠化溫度      |
| gelation                      | 凝膠化       |
| gelsolin                      | 凝溶膠蛋白     |
| gene delivery                 | 基因傳遞      |
| gene expression               | 基因表現      |
| gene gun                      | 基因槍       |
| gene therapy                  | 基因療法      |
| general attack                | 全面侵蝕      |
| general attack corrosion      | 全面腐蝕      |
| genetic diagnosis             | 基因診斷      |
| genetic information           | 基因資訊      |
| genetic polymorphism          | 遺傳多態性     |
| genetically engineered cell   | 基因工程細胞    |
| genome                        | 基因體       |
| genome information            | 基因體訊息     |
| genome network                | 基因體網絡     |
| genomic drug discovery        | 基因體藥物開發   |
| genomic medicine              | 基因體醫學     |
| genosensor                    | 基因感測器     |
| genotoxicity                  | 遺傳毒性；基因毒性 |
| gentobiose                    | 龍膽雙醣      |
| geochemistry                  | 地質化學      |
| geomagnetic field             | 地磁場       |

|                               |                            |
|-------------------------------|----------------------------|
| geometrical coalescence       | 幾何合併 { 晶粒 }                |
| Georgian glass                | 方網玻璃                       |
| Gerber's law                  | 蓋柏定律 { 有關疲勞行為 }            |
| german silver                 | 德銀 { $\alpha$ 相之銅鎳鋅合金 }；白銅 |
| germanium (Ge)                | 鍺                          |
| germanium nitride             | 氮化鍺                        |
| germanium oxide               | 氧化鍺                        |
| germanosiloxane               | 鍺矽氧烷                       |
| germination                   | 偉晶作用                       |
| Gero degassing process        | 吉羅去氣法                      |
| Ge-Si alloy                   | 鍺矽合金 { 熱電材料 }              |
| gesso                         | 石膏粉                        |
| getter                        | 收氣劑                        |
| getting                       | 採掘                         |
| g-factor                      | g-因子                       |
| Ghatti gum                    | 甘地膠                        |
| ghost band                    | 魔帶；魔線                      |
| ghost line                    | 魔線；魔帶                      |
| giant magnetoresistance (GMR) | 巨磁阻                        |
| Gibbs free energy             | 吉布斯自由能                     |
| Gibbs phase rule              | 吉布斯相律                      |
| Gibbs-Helmholtz equation      | 吉布斯-赫爾姆霍茨方程式               |
| gibbsite                      | 三水鋁石                       |
| Gilard & Dubrul factor        | 吉杜因數                       |
| gilding                       | 鍍金                         |
| gilding bronze                | 擬金黃銅 { 含 5%Zn 之黃銅 }        |
| gilding metal                 | 仿金合金                       |
| Gillmore needle               | 吉摩針                        |
| gilsonite                     | 硬瀝青                        |
| gilt                          | 包金件 { 以薄金屬被覆之銀或其他非鐵金屬 }    |
| glazing                       | 上釉                         |
| glass                         | 玻璃                         |

|  |           |
|--|-----------|
| glass ceramics                         | 玻璃陶瓷      |
| glass enamel                           | 玻璃琺瑯；玻璃搪瓷 |
| glass eye                              | 玻泡        |
| glass fiber                            | 玻璃纖維      |
| glass fibre                            | 玻璃纖維      |
| glass formation                        | 玻璃成形      |
| glass former                           | 玻璃形成劑     |
| glass frost                            | 玻白        |
| glass house                            | 玻璃工場      |
| glass miscibility gap                  | 玻璃互溶區     |
| glass modifier                         | 玻璃修飾劑     |
| glass naol                             | 玻璃絨       |
| glass structure model                  | 玻璃結構模型    |
| glass to metal seal                    | 玻金封合      |
| glass transformation range             | 玻璃轉變範圍    |
| glass transition                       | 玻璃轉換      |
| glass transition temperature           | 玻璃轉換溫度    |
| glass wool                             | 玻璃棉       |
| glass-bonded mica                      | 玻璃鍵結雲母    |
| glass-ceramic material                 | 玻璃陶瓷材料    |
| glass-coated steel & glass-lined steel | 玻襯器皿      |
| glass-forming engobe                   | 玻化化粧土     |
| glassine                               | 玻璃質       |
| glasslike polymer                      | 類玻璃聚合物    |
| glass-transition region                | 玻璃轉換區域    |
| glassy material                        | 玻璃質材料     |
| glaucoma                               | 青光眼       |
| glaze                                  | 釉         |
| glaze fit                              | 釉適性       |
| glazer                                 | 火焰磨光爐；磨光機 |
| glazing                                | 上釉；施釉     |
| glial cells                            | 神經膠質細胞    |
| glide                                  | 滑動        |

|                               |                |
|-------------------------------|----------------|
| glide plane                   | 滑移面            |
| Globar                        | 格羅棒 { 碳化矽電熱棒 } |
| Globeloy                      | 格羅布合金 { 耐熱鑄鐵 } |
| globular cementite            | 球狀雪明碳鐵         |
| globular pearlite             | 球狀波來體          |
| globular protein              | 球狀蛋白質          |
| globule                       | 血球             |
| globulin                      | 球蛋白            |
| globurizing                   | 球狀化            |
| glo-crack                     | 螢光示裂法          |
| glory hole                    | 小烘爐            |
| gloss                         | 光澤             |
| gloss point                   | 釉熔點            |
| glossy paint                  | 光亮漆            |
| glost-fire                    | 釉燒             |
| glow discharge                | 輝光放電           |
| glow discharge nitriding      | 輝光放電氮化         |
| glow-discharge coating        | 輝光放電塗佈         |
| glow-discharge polymerization | 輝光放電聚合反應       |
| glucoamylase                  | 葡萄糖澱粉酶         |
| glucomannan                   | 葡甘露聚糖          |
| glucopyranose polymer         | 吡喃葡萄糖高分子       |
| glucose oxidase               | 葡萄糖氧化酶         |
| glucose sensor                | 葡萄糖感測器         |
| glucose unit                  | 葡萄糖單元          |
| glucosidase                   | 葡萄糖苷酶          |
| glucuronic acid               | 葡萄糖醛酸          |
| glue                          | 膠              |
| glut arch                     | 焚口             |
| gluten                        | 麵筋             |
| glycan                        | 多糖；聚糖          |
| glyceride                     | 甘油酯            |
| glycerol                      | 甘油             |



|                             |   |
|-----------------------------|---|
| glyceryl linoleate          | 甘油亞油酸酯                                    |
| glyceryl phthalate          | 甘油酞酸酯                                     |
| glyceryl stearate           | 甘油硬脂酸酯                                    |
| glycidyl acrylate           | 縮水甘油丙烯酸酯                                  |
| glycidyl amine resin        | 縮水甘油胺樹脂                                   |
| glycidyl methacrylate       | 縮水甘油甲基丙烯酸酯                                |
| glycine/nitrate process     | 甘氨酸/硝酸鹽法                                  |
| glycinin                    | 大豆球蛋白                                     |
| glycochip                   | 糖晶片                                       |
| glycogen                    | 肝醣；糖原                                     |
| glycogen synthetase         | 肝醣合成酶；糖原合成酶                               |
| glycolic acid               | 乙醇酸                                       |
| glycolide                   | 乙醇酸                                       |
| glycolysis                  | 醣解；醇解                                     |
| glycome analysis            | 醣質體分析                                     |
| glycoprotein                | 醣蛋白                                       |
| glycosaminoglycan (GAG)     | 葡萄糖胺聚醣                                    |
| gob                         | 玻璃膏球                                      |
| gob process                 | 玻器製法                                      |
| goggles                     | 護目鏡                                       |
| gold (Au)                   | 金   |
| gold bronze                 | 金色青銅 { $\alpha$ 鋁青銅 · 含 3-5%Al 其餘為 Cu }   |
| gold decoration             | 金飾  |
| gold leaf                   | 金葉 { 3-5% $\times$ 10-6 inch 厚金箔 }        |
| gold ruby glass             | 金赤玻璃                                      |
| gold scouring               | 刮亮  |
| gold standard               | 標準金 { 英國含金 91.6% · 餘為銅；美國含金 90% · 餘為 Cu } |
| Goldschmidt Thermit process | 戈德史密斯特鋁熱法                                 |
| goldstone glaze             | 金石釉                                       |
| Golgi apparatus             | 高基氏體                                      |
| Gonell air elutriator       | 哥涅淘析機                                     |

|                              |                |
|------------------------------|----------------|
| goniometer                   | 測角計；測向器        |
| Good Clinical Practice (GCP) | 優良臨床試驗管理規範     |
| Goodman's law                | 古德曼定律 { 疲勞特性 } |
| Goskar dryer                 | 哥斯卡乾燥機         |
| Gothic pitch                 | 哥德斜度           |
| Gottignies kiln              | 哥廷尼[多隧]窯       |
| gouge                        | 半圓鑿            |
| gouging test                 | 抗磨試驗           |
| gradation                    | 級配             |
| grade                        | 等級             |
| graded aggregate             | 級配骨材           |
| graded standard sand         | 級配標準沙          |
| gradient                     | 梯度；傾差          |
| gradient mold                | 梯度模；鑄錠模        |
| grading                      | 分級             |
| grading analysis             | 級配分析           |
| grading curve                | 級配曲線；分級曲線      |
| graduating                   | 刻度             |
| graft                        | 移植植物；接枝 { 化學 } |
| graft copolymer              | 接枝共聚物          |
| graft copolymerization       | 接枝共聚反應         |
| grafting                     | 接枝             |
| grafting reaction            | 接枝反應           |
| Graham's classification      | 嘉罕分類           |
| grain                        | 顆粒；晶粒          |
| grain boundary               | 晶界             |
| grain boundary attack        | 晶界侵蝕           |
| grain boundary cavity        | 晶界孔洞           |
| grain boundary reaction      | 晶界反應           |
| grain boundary sliding       | 晶界滑移           |
| grain coarsening             | 晶粒粗化           |
| grain coarsening temperature | 晶粒粗化溫度         |
| grain contrast               | 晶粒[反光]對比       |

|                            |             |
|----------------------------|-------------|
| grain fineness number      | 顆粒細度        |
| grain geometry             | 晶粒幾何        |
| grain growth               | 晶粒成長        |
| grain growth equation      | 晶粒成長方程式     |
| grain growth exponent      | 晶粒成長指數      |
| grain multiplication       | 晶粒倍增        |
| grain refinement           | 晶粒細化        |
| grain refiner              | 細晶劑         |
| grain refining             | 晶粒細化        |
| grain refining temperature | 晶粒細化溫度      |
| grain size                 | 晶粒大小        |
| grain size analysis        | 粒度分析；晶粒分析   |
| grain size measure         | 晶粒大小測量      |
| grain structure            | 晶粒組織        |
| graininess                 | 粒度          |
| graining                   | 製木紋         |
| gram-atom                  | 克原子         |
| granite                    | 花崗石         |
| granite ware               | 斑點單軸搪瓷      |
| granodising                | 鋅面磷酸鹽[黑層]處理 |
| granular pearlite          | 粒狀波來鐵       |
| granular polymerization    | 顆粒聚合        |
| granular powder            | 粒狀粉末        |
| granulated slag            | 粒狀熔渣        |
| granulation                | 粒狀化；造粒      |
| granulation polymerization | 成粒聚合反應      |
| granulation tissue         | 肉芽組織        |
| granulator                 | 造粒機；成粒機     |
| graphene                   | 石墨烯         |
| graphite                   | 石墨          |
| graphite carbon            | 石墨碳         |
| graphite corrosion         | 石墨腐蝕        |
| graphite crucible          | 石墨坩堝        |

|                              |                 |
|------------------------------|-----------------|
| graphite electrode           | 石墨電極            |
| graphite flake precipitation | 片狀石墨析出          |
| graphite stability           | 石墨穩定性           |
| graphite steel               | 石墨鋼             |
| graphite-clay brick          | 石墨黏土磚           |
| graphite-encapsulated metal  | 石墨囊封金屬          |
| graphitic embrittlement      | 石墨脆化            |
| graphitic steel              | 石墨鋼             |
| graphitization               | 石墨化             |
| graphitization treatment     | 石墨化處理           |
| graphitizer                  | 石墨化促進劑          |
| graphitizing anneal          | 石墨化退火           |
| graphitizing inoculant       | 石墨化接種劑          |
| graphitizing inoculation     | 石墨化接種           |
| Grassmann diagram            | 格拉斯曼圖           |
| grate                        | 爐條；隔柵           |
| graticule                    | 影規 { 光學鏡頭中之刻度 } |
| gravimetric determination    | 重量分析            |
| gravimetric method           | 重量法             |
| gravity casting              | 重力鑄造            |
| gravity die casting          | 重力金屬模鑄造法        |
| gravity drop hammer          | 自落鎚             |
| gravity process              | 玻膏滴製法           |
| gravity segregation          | 重力偏析            |
| gravity sintering            | 重力燒結            |
| gray iron                    | 灰鑄鐵             |
| gray tin                     | 灰錫              |
| grazed brick                 | 釉磚              |
| grease                       | 油脂              |
| green body                   | 生坯              |
| green car                    | 環保汽車            |
| green casting                | 生鑄件 { 未熱處理之鑄件 } |

|                                  |                               |
|----------------------------------|-------------------------------|
| green compact                    | 生壓胚                           |
| green density                    | 粉胚體密度 { 粉末冶金 }                |
| green fluorescence protein (GFP) | 綠色螢光蛋白                        |
| green foil                       | 生薄帶                           |
| green house                      | 生坯間                           |
| green lumber                     | 原木                            |
| green permeability               | 溼砂透氣性                         |
| green pressing                   | 生壓胚                           |
| green rot                        | 綠鏽 { 含高鎳之鎳鉻合金之一種高溫腐蝕現象 }      |
| green sand                       | 溼[模]砂                         |
| green sand mold                  | 溼砂模                           |
| green sand molding               | 溼砂造模法                         |
| green spot                       | 深斑                            |
| green strength                   | 生坯強度 ; 溼砂強度                   |
| greenhouse effect                | 溫室效應                          |
| green-ware                       | 生坯                            |
| Greninger chart                  | 格林氏圖                          |
| grey cast iron                   | 灰鑄鐵                           |
| grey pig iron                    | 灰生鐵                           |
| grey tin                         | 灰錫 { 錫在-13.2°C以下所形成之硬脆鑽石形結構 } |
| Griffith crack                   | 格利菲裂紋 ; 格利菲裂痕 { 潛在 }          |
| Griffith critical crack length   | 格利菲氏臨界裂痕長度                    |
| Griffith flaw                    | 格利菲裂縫                         |
| Grignard reagent                 | 貴格納試劑                         |
| Grillo process                   | 葛利羅法                          |
| grindability                     | 易磨性                           |
| grinding                         | 研磨                            |
| grinding aid                     | 助磨劑 ; 研磨助材                    |
| grinding burn                    | 研磨燒傷 { 局部過熱產生裂縫 }             |
| grinding crack                   | 磨裂                            |

|                                |                         |
|--------------------------------|-------------------------|
| grinding wheel                 | 磨輪 ; 砂輪                 |
| grip slide                     | 夾持滑塊                    |
| gripper die                    | 夾持模                     |
| grisaille                      | 灰色彩繪法                   |
| grit                           | 粒 ; 粒度                  |
| grit blasting                  | 噴粒處理                    |
| grizzly                        | 柵篩                      |
| grog                           | 燒料 ; 熟料 { 經煨燒之一種非塑性材料 } |
| grogs                          | 燒粉                      |
| grooving corrosion             | 溝蝕                      |
| gross heating value            | 總熱量                     |
| Grossman hardenability         | 葛羅斯曼硬化能                 |
| Grotthus-Draper law            | 哥羅特蘇斯-德雷伯定律             |
| ground laying                  | 撒粉著色[法]                 |
| ground mass                    | 基料                      |
| ground-coat                    | 底塗                      |
| ground-coupled storage         | 地面耦合儲存                  |
| ground-hog kiln                | 藝陶窯                     |
| group displacement law         | 移族定律                    |
| group frequency                | 團基頻率                    |
| group-migration polymerization | 團遷移聚合反應                 |
| grout                          | 水泥漿 ; 灌漿                |
| grout molding                  | 水泥漿造模法                  |
| grouting agent                 | 灌漿助劑                    |
| growth                         | 成長                      |
| growth factor                  | 生長因子                    |
| growth kinetics                | 成長動力學                   |
| growth of bubble               | 氣泡成長                    |
| growth of cast iron            | 鑄鐵成長                    |
| growth rate                    | 成長速率                    |
| Grube method                   | 庫伯法 { 擴散分析 }            |
| guaiaac                        | 癒創木脂                    |
| guanine (G)                    | 鳥糞嘌呤                    |

|                                 |                             |
|---------------------------------|-----------------------------|
| guar gum                        | 瓜爾膠                         |
| Guerin forming                  | 蓋瑞成形 { 在壓模及橡皮墊間金屬片成形之專利名稱 } |
| guide roll                      | 導輓                          |
| guide tube                      | 導管                          |
| guided tissue regeneration      | 引導組織再生                      |
| Guillet diagram                 | 吉利氏圖                        |
| Guillet equivalent              | 吉利氏當量 { 黃銅鋅當量 }             |
| guillotine shears               | 斬斷剪機 ; 斬機                   |
| Guinier scattering              | 紀尼埃散射                       |
| Guinier-plot                    | 紀尼埃圖                        |
| Guinier-Preston zone (G-P zone) | G-P 層 ; G-P 帶               |
| gum                             | 膠                           |
| gun metal                       | 砲銅                          |
| guncotton                       | 火棉                          |
| gunite                          | 水泥漿 { 噴塗用 }                 |
| gunning                         | 射補[法]                       |
| Gurjum balsam                   | 古雲香膠                        |
| gutta-percha                    | 馬來樹膠                        |
| G-value                         | G 值                         |
| gypsum                          | 石膏                          |
| gypsum cement                   | 石膏水泥                        |
| gypsum mold                     | 石膏模                         |
| gypsum pattern                  | 石膏模型                        |
| gyration radius                 | 迴轉半徑                        |
| gyromagnetic ratio              | 迴轉磁比                        |
| gyrotropy                       | 迴轉向性                        |

# H

|                          |              |
|--------------------------|--------------|
| habit plane              | 晶癖面          |
| hack                     | 格架           |
| hacksaw                  | 弓鋸           |
| Hadfield manganese steel | 哈德菲高錳鋼       |
| Hadfield steel           | 哈德菲鋼 { 高錳鋼 } |
| Hadfield time-yield test | 哈德菲時間-降伏潛變試驗 |
| hafnium (Hf)             | 鈪            |
| Haigl machine            | 海氏疲勞試驗機      |
| hair crack               | 毛裂；毛狀微裂痕     |
| hair line                | 毛紋           |
| hair seam                | 毛狀疊紋         |
| hairline crack           | 毛裂；毛狀微裂痕     |
| hairy nanosphere         | 髮狀奈米球        |
| half center              | 半缺頂尖         |
| half dislocation         | 半差排          |
| half life                | 半衰期          |
| half martensite          | 半麻田散體        |
| half nut                 | 對開螺帽         |
| half thickness           | 半阻厚度 { 核子 }  |
| half-bat                 | 半磚           |
| half-hard cold work      | 半硬級冷加工       |
| halite                   | 岩鹽           |
| Hall coefficient         | 霍耳係數         |
| Hall effect              | 霍耳效應         |
| Hall effect              | 霍爾效應         |
| Hall method              | 霍爾方法         |
| Hall process             | 霍耳法          |
| halloysite               | 多水高嶺土        |
| Hall-Petch equation      | 霍爾-貝曲方程式     |
| Hall-Petch relationship  | 霍爾-佩奇關係      |
| haloacrylic ester        | 鹵丙烯酸酯        |

|                                      |             |
|--------------------------------------|-------------|
| halocarbon                           | 鹵碳化合物       |
| halodeoxycellulose                   | 鹵去氧纖維素      |
| halogen                              | 鹵素          |
| halogen acid                         | 鹵酸          |
| halogen compound                     | 鹵素化合物       |
| halogen intercalation fullerene film | 鹵素插層富勒烯膜    |
| halogen lamp                         | 鹵素燈         |
| halogen leak detector                | 鹵素測漏器       |
| halogenated aldehyde                 | 鹵化醛         |
| halogenated butyl rubber             | 鹵化丁基橡膠      |
| halogenated dibasic acid             | 鹵化雙質子酸      |
| halogenated hydrocarbon              | 鹵化烴         |
| halogenated monomer                  | 鹵化單體        |
| halogenation                         | 鹵化反應        |
| halostyrene                          | 鹵苯乙烯        |
| halosuccinic acid                    | 鹵琥珀酸        |
| Hamada index                         | 濱田指數        |
| hammer                               | 鎚           |
| hammer forging                       | 鎚鍛          |
| hammer hardening                     | 鎚擊硬化        |
| hammer mill                          | 鎚碎機         |
| hammer weld                          | 鍛接          |
| hand bellow                          | 手風箱         |
| hand charging                        | 手工加料        |
| hand forging                         | 手鍛          |
| hand molding                         | 手造模         |
| Hansgrig magnesium process           | 漢斯格里煉鎂法     |
| haplotype                            | 單元體；單倍體；單位體 |
| hard chrome plating                  | 鍍硬鉻         |
| hard coke                            | 硬質焦[碳]      |
| hard cold work                       | 硬級冷加工       |
| hard drawing                         | 硬拉；硬抽       |
| hard magnetic material               | 硬磁材料        |

|                              |                   |
|------------------------------|-------------------|
| hard metal                   | 硬金屬 { 燒結碳化物另一名稱 } |
| hard solder                  | 硬錫料               |
| hard soldering               | 硬錫                |
| hard steel                   | 硬鋼                |
| hard tissue adhesive         | 硬組織黏合劑            |
| hard water                   | 硬水                |
| hard zone crack              | 銲接區裂紋             |
| hard-ball model              | 實球模型              |
| hard-drawn steel             | 硬拉鋼               |
| hard-drawn wire              | 硬拉線               |
| hardenability                | 硬化能               |
| hardenability curve          | 硬化能曲線             |
| hardened steel               | 硬化鋼               |
| hardened structure           | 硬化組織              |
| hardener                     | 硬化劑               |
| hardening                    | 硬化；淬火             |
| hardening agent              | 硬化劑               |
| hardening capacity           | 硬化能               |
| hardening crack              | 硬化龜裂              |
| hardening furnace            | 淬火爐               |
| hardening of steel           | 鋼硬化               |
| hardening penetration        | 硬化深度              |
| hardening temperature        | 硬化溫度              |
| hardening thickness          | 硬化厚度              |
| hard-facing                  | [加錫]硬面法           |
| hardness                     | 硬度                |
| hardness contour             | 硬度梯階              |
| hardness factor              | 硬度因數              |
| hardness test                | 硬度測試              |
| hardware bronze              | 器皿青銅              |
| hare's fur glaze             | 兔毫釉               |
| Harper strain aging equation | 哈布應變時效方程式         |
| Harris process               | 哈里斯法              |

|                                      |                                 |
|--------------------------------------|---------------------------------|
| Hartman lines                        | 哈特曼線 { 即 Luder's line }         |
| Hartmann lines                       | 哈德曼線 { 變形滑帶 }                   |
| Hartree-Fock approximation           | 哈崔-佛克近似法                        |
| Hastalloy                            | 赫史特合金 { 耐酸耐熱鎳基超合金 }             |
| Hausdorff-Bezikovich dimension       | 赫斯多夫-博茲克韋屈維度                    |
| haydite                              | 海德石                             |
| Haynes alloy                         | 海恩斯合金                           |
| Hazelett strip casting machine       | 赫茲萊特鑄片機                         |
| H-band                               | H 帶 { 硬化能帶 Hardenability Band } |
| H-beam                               | H 型樑                            |
| headability                          | 鍛粗性                             |
| header                               | 鍛粗機；丁磚                          |
| header slider                        | 鍛粗滑塊 { 鍛粗機 }                    |
| heading                              | 鍛粗                              |
| head-to-head addition                | 頭對頭加成                           |
| head-to-tail polymer                 | 頭對尾聚合物                          |
| health hazard                        | 健康危害                            |
| heap leaching                        | 堆集浸濾；堆集浸洗                       |
| heart valve                          | 心臟瓣膜                            |
| hearth                               | 爐床；爐膛                           |
| heat                                 | 熱                               |
| heat affected zone crack (HAZ crack) | 熱影響區裂痕                          |
| heat aging                           | 熱老化                             |
| heat balance                         | 熱平衡                             |
| heat capacity                        | 熱容[量]                           |
| heat capacity                        | 熱容量                             |
| heat content                         | 熱含量                             |
| heat cracking                        | 熱裂                              |
| heat cycle                           | 熱循環                             |
| heat engine                          | 熱機                              |
| heat exchanger                       | 熱交換器                            |

|                           |           |
|---------------------------|-----------|
| heat fixation             | 熱固定法      |
| heat flow                 | 熱流        |
| heat flux                 | 熱通量       |
| heat insulating brick     | 隔熱磚       |
| heat loss                 | 熱[量]損失    |
| heat management           | 熱管理       |
| heat of formation         | 生成熱       |
| heat of friction          | 摩擦熱       |
| heat of fusion            | 熔化熱       |
| heat of hydration         | 水化熱       |
| heat of mixing            | 混合熱       |
| heat of reaction          | 反應熱       |
| heat of solution          | 溶解熱       |
| heat of sorption          | 吸附熱       |
| heat of vaporization      | 蒸發熱       |
| heat pipe exchanger       | 熱管交換器     |
| heat production           | 熱產生；熱產量   |
| heat pump                 | 熱泵        |
| heat rate                 | 熱率        |
| heat recovery             | 熱回收       |
| heat resistance           | 耐熱性       |
| heat resistant alloy      | 耐熱合金      |
| heat resistant casting    | 耐熱鑄件      |
| heat resisting cast iron  | 耐熱鑄鐵      |
| heat resisting cast steel | 耐熱鑄鋼      |
| heat resisting steel      | 耐熱鋼       |
| heat sealing              | 熱封        |
| heat shock                | 熱震        |
| heat sink                 | 散熱體       |
| heat spotting             | 局部熱處理     |
| heat stability            | 熱安定性；熱穩定性 |
| heat stabilization        | 熱安定法；熱穩定法 |
| heat stabilizer           | 熱穩定劑；熱安定劑 |
| heat sterilization        | 熱滅菌法      |

|                             |            |
|-----------------------------|------------|
| heat tinting                | 熱蝕法        |
| heat transfer               | 熱傳[遞]      |
| heat transfer coefficient   | 熱傳遞係數      |
| heat transmission           | 熱傳遞        |
| heat treatable alloy        | 可熱處理合金     |
| heat treating film          | 熱處理膜       |
| heat treatment              | 熱處理        |
| heat treatment furnace      | 熱處理爐       |
| heat value                  | 熱值         |
| heat-affected zone          | 熱影響區       |
| heat-distortion temperature | 熱變形溫度      |
| heater                      | 加熱器        |
| heating                     | 加熱         |
| heating element             | 發熱元件       |
| heating process             | 加熱過程       |
| heating rate                | 加熱速率       |
| heating temperature         | 加熱溫度       |
| heating time                | 加熱時間       |
| heating value               | 熱值         |
| heating value efficiency    | 熱值效率       |
| heating warpage test        | 加熱翹曲試驗     |
| heating zone                | 加熱區        |
| heat-resistant polymer      | 耐熱聚合物      |
| heat-seal adhesive          | 熱封黏著劑      |
| heat-sensitive fiber        | 熱敏感纖維      |
| heat-transfer coefficient   | 熱傳係數       |
| heat-transfer medium        | 熱傳媒介       |
| heat-transfer rate          | 熱傳速率       |
| heat-treated structure      | 熱處理組織      |
| heat-work                   | 熱功         |
| Heaviside step function     | 黑維塞階梯函數    |
| heavy hydrocarbon oxidation | 高碳氫化合物氧化作用 |
| heavy media separation      | 重介質分離      |

|                                    |                                 |
|------------------------------------|---------------------------------|
| heavy meromyosin                   | 重酶解肌球蛋白                         |
| heavy metal                        | 重金屬                             |
| heavy oil                          | 重油                              |
| heavy water                        | 重水                              |
| heavy weight concrete              | 重質混凝土                           |
| heavy-metal carboxylate            | 重金屬碳酸鹽                          |
| Hecnum                             | 海克能合金 { 含 55%Cu · 45%Ni 電阻用合金 } |
| Hegeler roaster                    | 海格勒焙燒機                          |
| Heisenberg's uncertainty principle | 海森堡測不準原理                        |
| helical content                    | 螺旋含量                            |
| helical multishell structure       | 螺旋多殼層結構                         |
| helical structure                  | 螺旋結構                            |
| helical tube waste heat boiler     | 螺旋管廢熱鍋爐                         |
| helical winding                    | 螺旋纏繞                            |
| helium (He)                        | 氦                               |
| helium leak detector               | 氦測漏器                            |
| helium leak-test                   | 氦漏氣試驗                           |
| helix                              | 螺旋                              |
| helix angle                        | 螺旋角                             |
| helix-shaped tube                  | 螺旋形管                            |
| helix-to-coil transition           | 螺旋到圈狀轉換                         |
| Helmholtz free energy              | 黑姆荷茲自由能                         |
| Helmholtz free energy exchange     | 黑姆荷茲自由能交換                       |
| hematite                           | 赤鐵礦                             |
| hematite pig iron                  | 赤鐵礦生鐵                           |
| heme-activated protein 2 (HAP2)    | 二型血紅素活化蛋白                       |
| hemi-cellulose                     | 半纖維素                            |
| hemidesmosome                      | 半細胞間橋體                          |
| hemming                            | 摺邊                              |
| hemo-compatibility                 | 血液相容性                           |
| hemodialyzer                       | 血透析器                            |

|                                   |                |
|-----------------------------------|----------------|
| hemoglobin                        | 血紅素；血紅蛋白       |
| hemolysis                         | 溶血作用           |
| hemolysis                         | 溶血[作用]         |
| hemo-perfusion                    | 血液灌流           |
| hemoprotein                       | 血紅素蛋白          |
| hemostasis                        | 止血[作用]         |
| hemp fiber                        | 大麻纖維           |
| Henderson cinder roasting process | 漢得遜結塊焙燒法       |
| Henry's activity                  | 亨利活性           |
| Henry's constant                  | 亨利常數           |
| Henry's law                       | 亨利定律           |
| heparin                           | 肝素             |
| heparinization                    | 肝素化            |
| hepatocyte                        | 肝細胞            |
| Herbert hardness tester           | 哈柏特硬度試驗機       |
| Herculoy                          | 赫可合金 { 一種矽青銅 } |
| hercynite                         | 熱鋁尖晶石          |
| hermetic sealing                  | 氣密式密封          |
| Heroult electric arc furnace      | 海洛式電弧爐         |
| Herrenschmidt furnace             | 海侖斯密特爐         |
| Herrenschmidt process             | 海侖斯密特法         |
| Herreshoff roaster                | 哈里肖夫焙燒機        |
| Hertzian elastic response         | 赫茲彈性反應         |
| Hess's law                        | 海斯定律           |
| heteocyclic amine                 | 雜環胺            |
| hetero atom                       | 雜離子            |
| heterocoagulation contact         | 異質凝聚接觸         |
| heterocyclic                      | 雜環             |
| heterocyclic compound             | 雜環化合物          |
| heterocyclic polyamide            | 雜環聚醯胺          |
| heterocyclic polyanhydride        | 雜環聚酸酐          |
| heteroepitaxial growth            | 異質磊晶生長         |



|  |                      |
|--|----------------------|
| heteroepitaxy                                | 異質磊晶                 |
| heterogeneity                                | 非均質性；異質性             |
| heterogeneous catalyst                       | 非均質相觸媒；異質相觸媒         |
| heterogeneous material                       | 非均質材料                |
| heterogeneous membrane                       | 非均質相透膜；異質相透膜         |
| heterogeneous nucleation                     | 非均質相成核；異質相成核         |
| heterogeneous polymerization                 | 非均質相聚合反應；異質相聚合反應     |
| heterogeneous reaction                       | 非均質反應                |
| heterogeneous structure                      | 非均質相結構；異質相結構         |
| heteroglycan                                 | 非均質相多醣；異質相多醣         |
| heterointerface                              | 異質界面                 |
| hetero-organic material                      | 異質有機材料               |
| heteropolymerization                         | 非均質相聚合反應；異質相聚合反應     |
| heterosteric                                 | 非均質相立體；異質相立體         |
| heterostructure                              | 異質結構                 |
| heterostructured multilayer                  | 異質結構多層膜              |
| Heusler alloy                                | 豪斯勒合金 { 一種強磁性非鐵合金 }  |
| hexachlorocyclotriphosphazene                | 六氯環三磷腈               |
| hexagonal closed packing                     | 六方最密堆積               |
| hexagonal close-packed lattice (HCP lattice) | 六方最密堆積晶格             |
| hexagonal indices                            | 六方指標                 |
| hexagonal metal                              | 六方晶金屬                |
| hexagonal system                             | 六方晶系                 |
| Heyn stress                                  | 海恩應力 { 金屬晶粒內微觀殘留應力 } |
| Heyrovsky-Volmer mechanism                   | 海羅夫斯基-沃謨機構           |
| hiding power                                 | 遮蓋能力                 |
| Hidurax                                      | 希杜拉合金 { 一種複雜鋁青銅 }    |

|  |                         |
|--|-------------------------|
| high angle annular dark-field image (HAADF image)        | 高角度環形暗視野影像              |
| high bainite   | 上變韌鐵                    |
| high brass   | 高黃銅                     |
| high carbon steel  | 高碳鋼                     |
| high diffusivity paths                                   | 高擴散路徑                   |
| high duty cast iron                                      | 高強鑄鐵                    |
| high duty fire clay                                      | 高級耐火黏土                  |
| high duty fire clay brick                                | 高級黏土質耐火磚                |
| high duty fire clay refractory                           | 高級黏土質耐火材                |
| high duty silica brick                                   | 高級矽磚                    |
| high electron mobility transistor (HEMT)                 | 高電子遷移率電晶體               |
| high energy ball milling (HEBM)                          | 高能球磨                    |
| high eucryptite  | 高鋰霞石                    |
| high expansion steel                                     | 高膨脹鋼                    |
| high frequency   | 高週波                     |
| high frequency furnace                                   | 高週波電爐                   |
| high gravity separation                                  | 高重力分離                   |
| high heating value (HHV)                                 | 高熱值                     |
| high polymer   | 高聚合物 { 高分子量聚合物 }        |
| high power direct arc electric furnace                   | 高電力直接電弧爐                |
| high pressure operation                                  | 高壓操作                    |
| high resolution transmission electron microscope (HRTEM) | 高解析穿透式電子顯微鏡；高分辨穿透式電子顯微鏡 |
| high siliceous brick                                     | 高矽質磚                    |
| high speed steel   | 高速鋼                     |
| high test cast iron                                      | 高級鑄鐵                    |
| high velocity oxygen fuel (HVOF) spray                   | 高速氧氣燃料噴塗；高速燃氧熔射         |
| high-alkali cement                                       | 高鹼水泥                    |
| high-alumina brick                                       | 高鋁磚                     |
| high-alumina cement                                      | 高鋁水泥                    |
| high-alumina refractory                                  | 高鋁耐火材                   |

|   |                    |
|---|--------------------|
| high-angle boundary                               | 高角度晶界              |
| high-conductivity beryllium copper                | 高導電鈹銅合金            |
| high-cycle fatigue                                | 高週期疲勞              |
| high-density polyethylene                         | 高密度聚乙烯             |
| high-duty fireclay brick                          | 高級火黏土磚             |
| high-early strength Portland cement               | 早強波特蘭水泥            |
| high-early-strength cement                        | 早強水泥               |
| high-energy-rate forging                          | 高能率鍛造              |
| high-energy-rate forming                          | 高能率成形              |
| high-entropy alloy (HEA)                          | 高熵合金               |
| highest occupied molecular orbital (HOMO)         | 最高佔有分子軌域           |
| high-frequency hardening                          | 高週波硬化              |
| high-frequency heating                            | 高頻加熱法              |
| high-frequency induction furnace                  | 高頻感應電爐             |
| high-frequency welding                            | 高週波銲接              |
| high-impact plastics                              | 耐衝擊塑膠              |
| high-k material                                   | 高 k 材料 { 高介電係數材料 } |
| high-leaded brass                                 | 高鉛黃銅               |
| highly oriented pyrolytic graphite (HOPG)         | 高定向熱解石墨            |
| high-manganese steel                              | 高錳鋼                |
| high-phosphorous pig iron                         | 高磷生鐵               |
| high-pile fabric                                  | 多絨毛織物              |
| high-pump power transient absorption spectroscopy | 高泵功率暫態吸收光譜術        |
| high-silicon bronze                               | 高矽青銅               |
| high-silicon cast iron                            | 高矽鑄鐵               |
| high-speed steel                                  | 高速鋼                |
| high-strength beryllium copper                    | 高強度鈹銅合金            |
| high-strength low alloy steel (HSLA steel)        | 高強度低合金鋼            |

|                                 |                              |
|---------------------------------|------------------------------|
| high-strength steel             | 高強度鋼                         |
| high-temperature alloy          | 耐高溫合金                        |
| high-temperature carburizing    | 高溫滲碳                         |
| high-temperature corrosion      | 高溫腐蝕                         |
| high-temperature oxidation      | 高溫氧化                         |
| high-temperature refractory     | 高溫耐火材料                       |
| high-temperature superconductor | 高溫超導體                        |
| high-tensile steel              | 高強度鋼                         |
| high-tension steel              | 高強度鋼                         |
| high-velocity forging           | 高速鍛造                         |
| high-zinc brass                 | 高鋅黃銅                         |
| hindered contraction            | 限縮變形                         |
| hip arthroplasty                | 髖關節成形術                       |
| hip dislocation                 | 髖脫臼                          |
| hip prostheses                  | 髖關節植入物                       |
| hip tile                        | 肩脊瓦                          |
| Hiperco                         | 海派鈷 { 高導磁率鐵鈷合金 }             |
| Hipernick                       | 海派鎳 { 高導磁率合金 50%Fe · 50%Ni } |
| histochemical stain             | 組織化學染色                       |
| histology                       | 組織學                          |
| H-Monel                         | H 蒙鎳合金                       |
| Hoffmann kiln                   | 何夫曼窯                         |
| hogging                         | 切整 { 用焰切法 }                  |
| holding furnace                 | 保溫爐                          |
| hole                            | 電洞 ; 孔洞                      |
| hole concentration              | 電洞濃度                         |
| hole mobility                   | 電洞遷移率                        |
| Holfos bronze                   | 霍弗青銅 { 含 10-23%Sn 之青銅 }      |
| hollow billet                   | 中空鋼胚                         |
| hollow block                    | 空心磚                          |
| hollow casting                  | 空鑄法 ; 空注法                    |

|                                     |            |
|-------------------------------------|------------|
| hollow clay block                   | 空心黏土磚      |
| hollow fiber                        | 中空纖維       |
| hollow punch                        | 空心衝頭       |
| hollow-ware                         | 深皿         |
| holmium (Ho)                        | 釹          |
| holocellulose                       | 全纖維素       |
| holocrystalline                     | 全結晶質       |
| hologram                            | 全像片        |
| holographic electron microscope     | 全像電子顯微鏡    |
| holography                          | 全像術；全像攝影   |
| homeostasis                         | 體內平衡；恆定狀態  |
| homocentric interference microscopy | 共心干涉顯微術    |
| homochiral                          | 同質對掌性      |
| homogeneity                         | 均質         |
| homogeneous carburizing             | 均質滲碳       |
| homogeneous deformation             | 均勻變形       |
| homogeneous material                | 均質材料       |
| homogeneous membrane                | 均質相透膜      |
| homogeneous mixture                 | 均質混合       |
| homogeneous nucleation              | 均質成核；均態成核  |
| homogeneous precipitation           | 均質析出       |
| homogeneous structure               | 均質組織       |
| homogenization                      | 均質化；均質作用   |
| homogenization theory               | 均質化理論      |
| homogenized ingot                   | 均質鑄錠       |
| homogenizing                        | 均質化        |
| homogenizing anneal                 | 均質化退火      |
| homogenizing heat treatment         | 均質化熱處理     |
| homogenous catalyst                 | 均相觸媒；均質相觸媒 |
| homogenous deformation              | 均質相變形      |
| homogenous polymerization           | 均質相聚合反應    |

|                              |          |
|------------------------------|----------|
| homografting                 | 同質接枝     |
| homologous temperature       | 對應溫度比    |
| homopolar bonding            | 同極結合     |
| homopolymer                  | 同質高分子    |
| homopolymerization           | 同質聚合反應   |
| homopolyurea                 | 同質聚脲     |
| homosteric                   | 均質相立體    |
| hone                         | 搪磨石      |
| honeycomb sandwich structure | 蜂巢三明治結構  |
| honeycomb structure          | 蜂巢結構     |
| honing                       | 搪磨；磨刀石研磨 |
| hood                         | 通風櫥；排氣罩  |
| hook gauge                   | 鈎式度量尺；鈎尺 |
| Hookean solid                | 虎克固體     |
| Hooke's law                  | 虎克定律     |
| hoop iron                    | 箍鐵       |
| hoop stress                  | 環應力      |
| Hopkins process              | 霍普金法     |
| hopper                       | 漏斗       |
| hopping mechanism            | 跳躍機制     |
| horizontal press             | 臥式壓機     |
| horizontal retort            | 臥式甑      |
| horn press                   | 角台壓機     |
| horse                        | 鞍形支架；梯桁  |
| horse power                  | 馬力       |
| horseshoe magnet             | 馬蹄鐵形磁體   |
| hose                         | 軟管       |
| host reaction                | 宿主反應     |
| hot air stove                | 熱風爐      |
| hot bent test                | 熱彎試驗     |
| hot blast cupola             | 熱風熔鐵爐    |
| hot blast furnace            | 熱風爐      |
| hot blast stove              | 熱風爐      |
| hot casting crack            | 熱鑄裂      |

|                             |                 |
|-----------------------------|-----------------|
| hot cathode ionization      | 熱陰極游離[真空]計      |
| hot cell                    | 輻射室             |
| hot coining                 | 熱壓印             |
| hot cold work               | 熱冷加工            |
| hot cracking                | 熱裂              |
| hot deformation             | 熱變形             |
| hot dip galvanizing         | 熱浸鍍鋅            |
| hot dipping                 | 熱浸法             |
| hot drawing                 | 熱拉法             |
| hot embossing               | 熱凸印             |
| hot extrusion               | 熱擠型             |
| hot floor                   | 熱坑              |
| hot forging                 | 熱鍛              |
| hot forming                 | 熱成形             |
| hot galvanizing             | 熱鍍鋅法            |
| hot hardness                | 高溫硬度            |
| hot heading                 | 熱鍛粗             |
| hot hubbing                 | 熱模壓             |
| hot isostaic pressing (HIP) | 熱均壓             |
| hot junction                | 熱接端             |
| hot laboratory (hot lab)    | 熱室 { 放射性材料實驗室 } |
| hot peening                 | 熱珠擊法            |
| hot peening marquenching    | 熱珠擊麻淬火          |
| hot permeability            | 熱通氣性            |
| hot pressing                | 熱壓[製]           |
| hot rolled bar steel        | 熱軋鋼條            |
| hot rolled sheet steel      | 熱軋鋼片            |
| hot rolling                 | 熱軋輥 ; 熱軋        |
| hot sawing                  | 熱鋸切             |
| hot shearing                | 熱剪切             |
| hot short                   | 熱脆性             |
| hot shortness               | 熱脆性             |
| hot sizing                  | 熱修準             |

|                          |                   |
|--------------------------|-------------------|
| hot stage                | 熱載台 { 顯微鏡用 }      |
| hot stage microscope     | 高溫載台顯微鏡           |
| hot stamping             | 熱壓印 ; 熱打印         |
| hot stretching           | 熱伸展               |
| hot tear                 | 熱裂                |
| hot tinting              | 熱著色法              |
| hot top                  | 熱頂                |
| hot trimming             | 熱修邊               |
| hot upsetting            | 熱鍛粗               |
| hot wall furnace         | 熱壁爐               |
| hot working              | 熱加工 ; 熱作          |
| hot working              | 熱加工 ; 熱作 ; 高溫加工   |
| hot working die steel    | 熱[作]模具鋼           |
| hotbed                   | 熱床                |
| hot-blast main           | 熱風主道              |
| hot-box process          | 熱箱製程              |
| hot-dip metallic coating | 熱浸金屬護膜            |
| hotel china              | 厚質餐瓷 ; 旅館用瓷       |
| hot-metal ladle          | 熔金屬桶              |
| hot-metal mixer          | 熔鐵混合器             |
| hot-patching             | 熱補法               |
| hot-plate spalling test  | 熱板剝落試驗            |
| hot-strip mill           | 板條熱軋機             |
| hot-wall reactor         | 熱壁反應器             |
| hot-wire process         | 熱絲精煉法             |
| Hounsfield tensometer    | 韓司菲爾張力計           |
| hour-glass fracture      | 沙漏形破裂             |
| Hovel kiln               | 賀菲窯 ; 罩窯          |
| Hover kiln               | 氣墊隧道窯             |
| H-steel                  | H 型鋼 { 硬化能帶鋼 }    |
| hubbing                  | 輪轂成形 ; 陰模攻製       |
| Huggenberger tensometer  | 胡根伯格張力計 ; 胡根伯格伸長計 |
| human body corrosion     | 人體腐蝕              |

|                                     |                |
|-------------------------------------|----------------|
| human mesenchymal stem cell (hMSC)  | 人類間葉幹細胞        |
| human neuron stem cell (hNSC)       | 人類神經幹細胞        |
| Hume-Rothery phase (H-R phase)      | 休姆-若塞瑞相        |
| humic acid                          | 腐質酸            |
| humidification                      | 增溼             |
| humidity dryer                      | 調溼乾燥室          |
| humidity ratio                      | 溼度比            |
| humidity                            | 溼度             |
| Humphrey's reagent                  | 韓福瑞試劑          |
| Humphrey's spiral concentrator      | 韓福瑞蝸旋機         |
| Hund's rule                         | 洪德定則           |
| Huntington-Heberlein sink and float | 杭汀頓海布林浮沉法      |
| hyaladherins                        | 透明質酸結合蛋白       |
| hyaluronan                          | 玻尿酸；醣醛酸；透明質酸   |
| hyaluronate                         | 玻尿酸[鹽]；玻糖醛酸[鹽] |
| hyaluronic acid                     | 玻尿酸；醣醛酸；透明質酸   |
| hyaluronidase                       | 玻尿酸酶；玻糖醛酸酶     |
| hybrid cars                         | 混合車            |
| hybrid cell                         | 混合電池           |
| hybrid composite                    | 混成複材           |
| hybrid mesoporous material          | 混成介孔材料         |
| hybrid nanocomposite                | 混成奈米複材         |
| hybrid orbital                      | 混成軌域           |
| hybridization                       | 混成             |
| hybrization indicator               | 雜交指標           |
| Hydra steel                         | 海著鋼 { 類似熱模鋼 }  |
| hydrate                             | 水合             |
| hydrated alumina                    | 水化氧化鋁          |
| hydrated chromic hydroxide          | 水合氫氧化鉻         |
| hydrated lime                       | 消石灰            |

|                                  |   |
|----------------------------------|---|
| hydration                        | 水合[作用]  |
| hydration reaction               | 水合反應  |
| hydraulic cement                 | 水硬性水泥   |
| hydraulic forming                | 液壓成形  |
| hydraulic lime                   | 水硬石灰  |
| hydraulic press                  | 液壓機   |
| hydraulic setting refractory     | 水凝[性]耐火材  |
| hydraulic sizer                  | 水力篩分機   |
| hydraulicking                    | 水掘法 { 採礦 }  |
| hydrazine                        | 聯胺；肼 { 無色液體 N <sub>2</sub> H <sub>4</sub> · 為強還原劑 } |
| hydrazine-air alkaline fuel cell | 聯氨空氣鹼性燃料電池  |
| hydrazine-air system             | 聯胺-空氣系統   |
| hydrazinodeoxy cellulose         | 肼去氧纖維素  |
| hydrazone                        | 肼   |
| hydride                          | 氫化物   |
| hydride descaling                | 氫化物去鏽法  |
| hydro-                           | 氫的；水的   |
| hydroabietyl alcohol             | 氫松酯醇  |
| hydro-blast                      | 高壓水清砂機  |
| hydrocarbon                      | 烴；碳氫化合物   |
| hydrocarbon fuel                 | 碳氫化合物燃料   |
| hydrocarbon oxidation            | 碳氫化合物氧化   |
| hydrocarbon reforming            | 碳氫化合物重組   |
| hydrocellulose                   | 水解纖維素   |
| hydro-cellulose                  | 水合纖維素   |
| hydrochloric acid                | 鹽酸  |
| hydroclone                       | 水萃取器  |
| hydrocolloid dressing            | 水膠體敷料   |
| hydrocyanic acid                 | 氫氰酸   |
| hydrocyclone classifier          | 溼式旋渦分級機   |
| hydro-dealkylation               | 加氫脫烴  |
| hydrodimerization                | 水合雙體化反應   |

|   |            |
|---|------------|
| hydroforming                              | 液壓成型       |
| hydroformylation                          | 水合甲醯化      |
| hydrogel                                  | 水凝膠；水膠     |
| hydrogen                                  | 氫氣         |
| hydrogen (H)                              | 氫          |
| hydrogen attack                           | 氫害         |
| hydrogen blistering                       | 氫泡傷        |
| hydrogen bond                             | 氫鍵         |
| hydrogen bond crystals                    | 氫鍵晶體       |
| hydrogen bonding                          | 氫鍵結        |
| hydrogen damage                           | 氫害         |
| hydrogen deflagration                     | 氫爆燃        |
| hydrogen electrode                        | 氫電極        |
| hydrogen embrittlement                    | 氫脆性；氫脆化    |
| hydrogen evolution reaction (HER)         | 產生氫反應      |
| hydrogen film                             | 氫膜         |
| hydrogen fuel cell/battery hybrid vehicle | 氫燃料電池混合動力車 |
| hydrogen halide                           | 鹵化氫        |
| hydrogen induced cracking                 | 氫誘導破裂；氫脆裂  |
| hydrogen leakage                          | 氫滲漏        |
| hydrogen loss                             | 氫內損失       |
| hydrogen overvoltage                      | 氫過[電]壓     |
| hydrogen oxidation reaction               | 氫氣氧化反應     |
| hydrogen peroxide formation               | 過氧化氫的生成    |
| hydrogen refinery                         | 氫氣純化       |
| hydrogen storage                          | 儲氫         |
| hydrogen stress cracking                  | 氫應力破裂      |
| hydrogen tank                             | 氫氣槽        |
| hydrogen-air fuel cell                    | 氫-空氣燃料電池   |
| hydrogen-air-water system                 | 氫-空氣-水系統   |
| hydrogenated polymer                      | 氫化聚合物      |

|   |   |
|---|---|
| hydrogenation                             | 氫化反應  |
| hydrogen-halogen fuel cell                | 氫-鹵素燃料電池  |
| hydrogen-nickeloxide cell                 | 氫-氧化鎳電池   |
| hydrogenolysis                            | 氫解反應  |
| hydrogen-oxygen fuel cell                 | 氫-氧燃料電池   |
| hydrogen-treating process                 | 氫處理法  |
| hydrogey annealing                        | 氫流退火  |
| hydrolase                                 | 水解酶   |
| hydrolysis                                | 水解  |
| hydrolytic polymerization                 | 水解聚合反應  |
| hydrolytic stability                      | 水解穩定性   |
| hydrolytically sensitive polyphosphazenes | 水解敏感性磷氮基聚合物   |
| hydrolytically stable polyphosphazenes    | 水解穩定性磷氮基聚合物   |
| hydrolyzable pendant group                | 可水解懸基   |
| hydromagnetics                            | 流體磁力學   |
| hydrometallurgy                           | 水冶金；溼法冶金  |
| hydrometer                                | [液體]比重計   |
| Hydronalium                               | 海裝鋁 { 含 2-10%Mg · 0.2-1.5%Si · 0.2-1.0%Mn 的一系列鋁合金 } |
| hydroperoxidation                         | 氫過氧化反應  |
| hydroperoxide                             | 氫過氧化物   |
| hydrophile                                | 親水  |
| hydrophilic                               | 親水性   |
| hydrophilic colloid                       | 親水膠體  |
| hydrophilic electrode                     | 親水電極  |
| hydrophilic polymer                       | 親水聚合物   |
| hydrophobic                               | 疏水性   |
| hydrophobic colloid                       | 疏水膠體  |
| hydrophobic electrode                     | 疏水電極  |
| hydroplastic forming                      | 液壓塑性成型  |
| hydroplasticity                           | 液壓塑性  |

|                              |               |
|------------------------------|---------------|
| hydroquinone                 | 對苯二酚          |
| hydroseparator               | 水力分離器         |
| hydrosilation                | 氫矽化           |
| hydrosol                     | 水溶膠           |
| hydrostatic extrusion        | 液壓擠製          |
| hydrostatic molding          | 液壓成形          |
| hydrostatic powder pressing  | 粉末液均壓         |
| hydrostatic pressing         | 液均壓法 { 粉末冶金 } |
| hydrostatic tension          | 均張力           |
| hydrosulfite                 | 亞硫酸氫鹽         |
| hydrothermal process         | 水熱法           |
| hydroxide                    | 氫氧化物          |
| hydroxyalkyl acrylate        | 羥烷基丙烯酸酯       |
| hydroxyalkyl methylcellulose | 羥烷基甲基纖維素      |
| hydroxyalkyl pyridine        | 羥烷基吡啶         |
| hydroxyapatite               | 氫氧基磷灰石        |
| hydroxyindon                 | 羥茛丹           |
| hydroxyl                     | 羥基            |
| hydroxyquinone               | 羥基醌           |
| hydrying                     | 氫流熱處理         |
| hygroexpansivity             | 溼脹性           |
| hygrometer                   | 溼度計           |
| hygrometry                   | 測溼法           |
| hygroscopic material         | 吸溼材料          |
| hygroscopicity               | 吸溼性           |
| hyperbranched polymer        | 超枝化聚合體；超枝化高分子 |
| hyperconjugation             | 超共軛           |
| hypereutectic                | 過共晶           |
| hypereutectic alloy          | 過共晶合金         |
| hypereutectic cast iron      | 過共晶鑄鐵         |
| hypereutectic composition    | 過共晶組成         |
| hypereutectoid alloy         | 過共析合金         |

|                          |           |
|--------------------------|-----------|
| hypereutectoid cast iron | 過共析鑄鐵     |
| hypereutectoid steel     | 過共析鋼      |
| hyperfine field          | 超精細場      |
| hyperfine structure      | 超精細結構     |
| hypersensitivity         | 過敏性       |
| hypochlorite             | 次氯酸鹽      |
| hypocrystalline          | 亞結晶質      |
| hypoeutectic             | 亞共晶       |
| hypoeutectic alloy       | 亞共晶合金     |
| hypoeutectic cast iron   | 亞共晶鑄鐵     |
| hypoeutectic composition | 亞共晶組成     |
| hypoeutectic structure   | 亞共晶結構     |
| hypoeutectoid steel      | 亞共析鋼      |
| hypoxia                  | [組織]缺氧    |
| hypsochromic shift       | 藍位移       |
| hysteresis               | 遲滯；磁滯     |
| hysteresis loop          | 磁滯環       |
| hysteresis loss          | 遲滯損失；磁滯損失 |

## I

|                            |                            |
|----------------------------|----------------------------|
| I-beam                     | I 型樑                       |
| Iceland spar               | 冰島晶石 { 透明方解石 }             |
| icosahedral structure      | 二十面體結構                     |
| icosahedron                | 二十面體                       |
| ideal critical diameter    | 理想臨界直徑 { 淬火 }              |
| ideal curve                | 理想曲線                       |
| ideal elastomer            | 理想彈性體                      |
| ideal quench               | 理想淬火                       |
| ideal solution             | 理想溶液                       |
| idiochromatic crystal      | 本質光電晶體；本質色晶體               |
| idiomorphic crystal        | 自形晶體                       |
| idler roll                 | 惰輥                         |
| igneous rock               | 火成岩                        |
| ignition                   | 點火；點燃                      |
| ignition arch              | 點火拱                        |
| ignition loss              | 燒失                         |
| ignition point             | 燃點                         |
| ignition temperature       | 點燃溫度                       |
| ihrigising                 | 滲矽 { 即 Siliconization }    |
| illinium (II)              | 釹 { 現改名為鉅·Pm }             |
| illite                     | 伊萊石                        |
| Illium                     | 伊利合金 { 耐硫酸及硝酸的高鎳超合金 }      |
| ilmenite                   | 鈦鐵礦 { FeTiO <sub>3</sub> } |
| ilmenite crystal structure | 鈦鐵礦晶體結構                    |
| imbibition                 | 吸液膨脹                       |
| imine                      | 亞胺類                        |
| immersion cleaning         | 浸入清潔法                      |
| immersion oil              | 浸入油 { 光學顯微鏡中，物鏡與樣品間之油 }    |
| immersion pyrometer        | 浸入式[熱電偶]高溫計                |

|  |               |
|--|---------------|
| immiscibility                                | 不互溶性          |
| immobile electrolyte system                  | 固定式電解質系統      |
| immune response                              | 免疫反應          |
| immunity                                     | 免疫性           |
| immuno sensor                                | 免疫感測器         |
| immunoassay                                  | 免疫分析          |
| immunochromatography chip                    | 免疫層析晶片        |
| immunoisolation                              | 免疫隔離          |
| immunologic toxicity                         | 免疫毒性          |
| immunology                                   | 免疫學           |
| immunoreagent                                | 免疫反應分子        |
| immunotoxicity                               | 免疫毒性          |
| impact                                       | 衝擊            |
| impact energy                                | 衝擊能量          |
| impact extrusion                             | 衝擊擠製          |
| impact fracture testing                      | 衝擊破裂測試；衝擊破壞測試 |
| impact mill                                  | 衝擊磨機          |
| impact parameter                             | 衝擊參數          |
| impact resistance                            | 耐衝擊性；衝擊抗力     |
| impact strength                              | 衝擊強度          |
| impact test                                  | 衝擊試驗          |
| impact testing machine                       | 衝擊試驗機         |
| impact value                                 | 衝擊值           |
| impedance analysis                           | 阻抗分析          |
| impedance spectroscopy                       | 阻抗頻譜術         |
| imperfect dislocation                        | 不完全差排         |
| imperfection                                 | 缺陷            |
| impingement attack                           | 沖擊腐蝕          |
| implant                                      | 植入體；植入物       |
| implantable cardioverter-defibrillator (ICD) | 可植入人工心臟去顫器    |
| impregnated-carbon silicon carbide           | 漬碳碳化矽         |
| impregnating crack detection                 | 浸透探傷          |



|   |                      |
|---|----------------------|
| impregnating method                               | 浸孕法                  |
| impregnation                                      | 浸漬                   |
| impregnation material                             | 浸漬材料                 |
| impression  | 型                    |
| imprinting lithography                            | 壓印石刻                 |
| impulse sealing                                   | 脈衝封合                 |
| impurities tolerance                              | 雜質容限                 |
| impurity  | 雜質；不純物               |
| impurity diffusion                                | 雜質擴散                 |
| impurity semiconductor                            | 不純物半導體               |
| in situ   | 原位；正位；臨場             |
| in situ precipitating delivery system             | 臨場析出輸送系統             |
| incandescent lamp                                 | 白熾燈                  |
| inchrome  | 滲鉻法                  |
| incident photon-to-current efficiency             | 入射光致電流效率             |
| incident photon-to-electron conversion efficiency | 入射光子電子轉換效率           |
| incipient fusion                                  | 初[期]熔[融]             |
| incipient surface energy                          | 初期表面自由能              |
| incising  | 雕飾                   |
| inclinable press                                  | 可傾壓機                 |
| inclined illumination                             | 傾斜照明                 |
| inclined press                                    | 傾架壓機                 |
| inclusion   | 夾雜物                  |
| inclusion particle                                | 夾雜粒子                 |
| incoherent precipitate                            | 非契合析出物               |
| incoherent radiation                              | 非同相輻射                |
| incoherent scattering                             | 不整合散射                |
| incoloy   | 英高合金 { 一種耐熱鎳基超合金 }   |
| inconel   | 英高鎳 { 一種含鉻·鐵之鎳基超合金 } |
| incongruent melting                               | 分熔                   |
| incongruent phase transformation                  | 異成分相變；異成分相變態         |

|  |              |
|--|--------------|
| incongruently melting compound               | 分熔化合物        |
| incrustation                                 | 殘渣；水垢附著物     |
| incubation period                            | 潛伏期；孕核期      |
| indanthrone blue                             | 陰丹士林藍        |
| indentation                                  | 壓痕           |
| indentation hardness                         | 壓痕硬度         |
| indentation test                             | 壓痕試驗 { 硬度 }  |
| indenting                                    | 缺口           |
| indenter                                     | 壓痕器 { 壓痕頭 }  |
| index  | 指標           |
| index of refraction                          | 折射率          |
| indigoid dye                                 | 靛藍染料         |
| indirect arc furnace                         | 間接電弧爐        |
| indirect esterification                      | 間接脂化反應       |
| indirect extrusion                           | 間接擠型         |
| indirect interchange diffusion               | 間接互換擴散       |
| indirect internal reforming                  | 間接式內部重組      |
| indirect pressure                            | 間接壓力         |
| indirect reduction                           | 間接還原         |
| indirect transformation                      | 間接轉變；間接變態    |
| indium (In)                                  | 銦            |
| indium antimonide                            | 銻化銦 { InSb } |
| indium arsenide                              | 砷化銦 { InAs } |
| indium phosphide                             | 磷化銦 { InP }  |
| indium tin oxide (ITO)                       | 銦錫氧化物        |
| indoor air quality standards (IAQ standards) | 室內空氣品質標準     |
| induced dipole                               | 誘發偶極         |
| induced magnetism                            | 感應磁；感生磁      |
| induced magnetization                        | 感應磁化         |
| inductance                                   | 電感           |
| induction                                    | 感應           |
| induction furnace                            | 感應電爐         |

|  |                 |
|--|-----------------|
| induction hardening                    | 感應硬化[法]；感應淬硬[法] |
| induction heating                      | 感應加熱[法]         |
| induction period                       | 誘導期             |
| induction tempering                    | 感應回火            |
| induction welding                      | 感應銲接            |
| inductive differentiation              | 誘導分化            |
| inelastic action                       | 非彈性作用           |
| inelastic neutron scattering           | 非彈性中子散射         |
| inelastic phonon scattering            | 非彈性聲子散射         |
| inelastic scattering                   | 非彈性散射           |
| inert atmosphere electron beam welding | 惰性氣氛電子束銲接       |
| inert gas condensation                 | 惰性氣體凝結法         |
| inert gas deposition                   | 惰性氣體沉積法         |
| inert gas welding                      | 惰性氣銲接           |
| inert material                         | 惰性材料            |
| infection                              | 傳染；感染           |
| infilling method                       | 充填法             |
| infiltration                           | 滲入；滲吸           |
| infinitesimal deformation              | 極微變形            |
| infinitesimal strain tensor            | 極微應變張量          |
| inflammation                           | 發炎；炎症           |
| inflammatory mediator                  | 發炎媒介物；炎症介質      |
| inflatable structure                   | 可吹脹結構           |
| inflection temperature                 | 曲折溫度            |
| infra red                              | 紅外線             |
| infrared                               | 紅外線             |
| infra-red drying                       | 紅外線乾燥[法]        |
| infrared pyrometer                     | 紅外線高溫計          |
| infrared ray                           | 紅外線             |
| infusion pump                          | 輸液幫浦；輸液泵        |
| infusorial earth                       | 矽藻土             |
| ingate                                 | 進模口             |

|                         |                        |
|-------------------------|------------------------|
| in-glaze decoration     | 釉內彩[飾]                 |
| Inglis equation         | 殷格里斯方程式 { 應力集中用 }      |
| ingot                   | 鑄錠                     |
| ingot case              | 鑄錠模                    |
| ingot degassing         | 鑄錠去氣                   |
| ingot iron              | 熟鐵；工業用純鐵               |
| ingot mold              | 鑄錠模                    |
| ingotism                | 鑄錠狀組織 { 粗大樹枝狀及柱狀結晶組織 } |
| ingredient              | 成分                     |
| inherent                | 固有                     |
| inherent chain transfer | 固有鏈轉移                  |
| inherent grain size     | 固有粒度 { 晶體 }            |
| inherent viscosity      | 固有粘度                   |
| inhibition              | 抑制作用                   |
| inhibitor               | 抑制劑                    |
| inhomogeneity           | 非均質性                   |
| initial permeability    | 初導磁率                   |
| initial set             | 初凝                     |
| initial stress          | 初應力                    |
| initial tangent modulus | 初期切線模數                 |
| initiation              | 起始作用                   |
| initiation efficiency   | 起始效率                   |
| initiation rate         | 起始速率                   |
| initiator               | 起始劑                    |
| injectability           | 可注射性                   |
| injection method        | 射注法                    |
| injection mold          | 射出模具                   |
| injection molding       | 射出模製；射出成型              |
| injection moulding      | 射出成形                   |
| injection screw         | 射出螺桿                   |
| inkjet printing         | 噴墨印製                   |
| inkjet technology       | 噴墨技術                   |
| inlaying                | 鑲嵌                     |

|  |           |
|--|-----------|
| innate immunity                          | 先天性免疫     |
| inner chill                              | 內冷鐵       |
| inner crack                              | 內裂紋       |
| inner defect                             | 內缺陷       |
| inoculant                                | 接種劑       |
| inoculated cast iron                     | 接種鑄鐵      |
| inoculating                              | 接種法       |
| inoculation                              | 接種處理；接種   |
| inorganic coordination polymer           | 無機配位聚合物   |
| inorganic salt                           | 無機鹽       |
| inorganic solvent                        | 無機溶劑      |
| insert                                   | 嵌件        |
| insert die                               | 嵌型模       |
| inside seam                              | 閃疊縫       |
| insoluble anode                          | 不溶性陽極     |
| insoluble residue                        | 不溶性殘渣     |
| inspection                               | 檢驗        |
| insufflation                             | 噴灰入窯      |
| Insulated Gate Bipolar Transistor (IGBT) | 絕緣閘雙極電晶體  |
| insulating brick                         | 絕熱磚；隔熱磚   |
| insulating material                      | 絕緣材料      |
| insulating refractory                    | 絕熱耐火材     |
| insulation                               | 絕緣        |
| insulator                                | 絕緣體       |
| insulin                                  | 胰島素       |
| intact cell                              | 完整細胞      |
| intaglio                                 | 凹雕        |
| integrated array                         | 積體陣列；集成陣列 |
| integrated circuit 【IC】                  | 積體電路      |
| integrated fuel cell (IGFC)              | 整合型燃料電池   |
| integrated intensity                     | 積分強度      |
| integrated neutron flux                  | 積分中子通率    |

|  |                  |
|--|------------------|
| integrated resource planning (IRP)                   | 整體資源規劃           |
| integrin   | 整聯蛋白             |
| intelligent material                                 | 智慧材料             |
| intensity  | 強度               |
| intensity modulated photocurrent spectroscopy (IMPS) | 強度調變光電流頻譜術       |
| intensity modulated photovoltage spectroscopy (IMVS) | 強度調變光伏頻譜術        |
| intensity of magnetization                           | 磁化強度             |
| interaction  | 交互作用             |
| interaction coefficient                              | 交互反應係數           |
| interatomic bond                                     | 原子間鍵結            |
| interatomic bonding                                  | 原子間鍵結            |
| interatomic separation                               | 原子間距             |
| intercalation  | 插層               |
| intercalation-type nanocomposite                     | 插層型奈米複材          |
| intercept method                                     | 截線估量法 { 用於顯微鏡下 } |
| interconnect   | 連接[器]            |
| interconnected porosity intercrystalline corrosion   | 互通孔隙[晶]粒間腐蝕      |
| interconnectivity                                    | 網間連結             |
| intercooler  | 中間冷卻器            |
| intercrystalline crack                               | [晶]粒間破裂          |
| intercrystalline failure                             | [晶]粒間破壞          |
| intercrystalline fracture                            | [晶]粒間破斷          |
| intercrystalline swelling                            | 結晶間膨脹            |
| interdendritic graphite                              | 樹枝狀間石墨           |
| interdendritic porosity                              | 樹枝狀組織間孔隙         |
| interdendritic segregation                           | 樹枝狀間偏析           |
| interdiffusion                                       | 相互擴散；交互擴散        |
| interdiffusion                                       | 交互擴散             |
| interdiffusion coefficient                           | 相互擴散係數；交互擴散係數    |

|                                   |               |
|-----------------------------------|---------------|
| interdigitation molecular bond    | 指狀交叉分子鍵       |
| interface                         | 介面            |
| interface controlled growth       | 介面控制成長        |
| interface-to-volume ratio         | 界面-體積比        |
| interfacial contact               | 界面接觸          |
| interfacial defect                | 介面缺陷          |
| interfacial energy                | 介面能           |
| interference                      | 干涉            |
| interference hologram             | 干涉全息圖         |
| interference method               | 干涉法           |
| interference microscopy           | 干涉顯微術         |
| interference RNA (iRNA)           | 干擾性核糖核酸       |
| interferometer                    | 干涉計           |
| intergrain correlation function   | 晶間關聯函數        |
| intergranular corrosion           | [晶]粒間腐蝕；沿晶腐蝕  |
| intergranular fracture            | [晶]粒間破斷；沿晶破壞  |
| intergranular thermal current     | [晶]粒間熱流       |
| interionic separation             | 離子間距          |
| interlacing                       | 交織            |
| interlamellar spacing of pearlite | 波來鐵層間距        |
| interlayer exchange               | 層間交換          |
| interlocked molecule              | 互鎖分子          |
| interlocking                      | 聯鎖            |
| interlocking tile                 | 互扣瓦           |
| intermediate alloy                | 中間合金 { 即母合金 } |
| intermediate annealing            | 中間退火          |
| intermediate compound             | 中間化合物         |
| intermediate crusher              | 中級軋碎機         |
| intermediate filament             | 中間絲           |
| intermediate frequency furnace    | 中週波感應電爐       |
| intermediate phase                | 中間相           |

|  |                  |
|--|------------------|
| intermediate solid solution                  | 中間固溶體            |
| intermetallic compound                       | 介金屬化合物           |
| intermetallics                               | 介金屬              |
| intermittent fluorescence                    | 間歇性螢光            |
| intermittent kiln                            | 間歇窯              |
| intermittent mode                            | 間歇模式             |
| intermolecular                               | 分子間              |
| intermolecular coupling                      | 分子間偶合            |
| internal chill                               | 內冷鐵              |
| internal combustion engine (ICE)             | 內燃機              |
| internal current                             | 內電流              |
| internal defect                              | 內缺陷              |
| internal dissipation of energy               | 能量內耗             |
| internal energy                              | 內在能；內能           |
| internal fixation device                     | 內部固定裝置           |
| internal friction                            | 內部摩擦；內耗 { 阻尼作用 } |
| internal oxidation                           | 內部氧化             |
| internal porosity                            | 內孔巢 { 鑄疵 } ；孔隙率  |
| internal reforming                           | 內部重組             |
| internal shrinkage                           | 內縮               |
| internal stress                              | 內應力              |
| internal tearing                             | 內裂               |
| internal upset                               | 向內鍛粗件            |
| internal upset forging                       | 向內鍛厚 { 管 }       |
| internally manifolded heat exchanger (IMHEX) | 內部歧管式熱交換器        |
| International Annealed Copper Standard       | 國際退火銅標準 { 電阻規格 } |
| interpass temperature                        | [最低]銜接溫度 { 銲接 }  |
| interpenetrating                             | 相互穿透             |
| interpenetrating networks (IPNs)             | 互貫網狀結構           |
| interphase precipitation                     | 中間相析出            |
| interplanar angle                            | 面間夾角 { 晶體 }      |

|   |                             |
|---|-----------------------------|
| interplanar spacing                     | 平面間距                        |
| interpolating function                  | 插值函數                        |
| interpolymerization                     | 相互聚合反應                      |
| inter-process annealing                 | 製程中退火                       |
| inter-proximity effect                  | [圖案]間鄰近效應                   |
| interrupted ageing                      | 間歇時效；分段時效                   |
| interrupted quenching                   | 分段淬火法                       |
| interrupted repeated immersion test     | 反覆浸漬腐蝕試驗                    |
| interstice                              | 原子間空隙；插入位置；間隙               |
| interstitial atom                       | 間隙原子                        |
| interstitial compound                   | 間隙化合物                       |
| interstitial diffusion                  | 間隙擴散；填隙擴散                   |
| interstitial site                       | 間隙位置；填隙位置                   |
| interstitial solid solution             | 間隙固溶體                       |
| interstitial solution                   | 間隙溶液；填隙溶液                   |
| interstitialcy                          | 自身填隙原子                      |
| interstitialcy mechanism                | 間隙堆填機制                      |
| interstitialcy diffusion                | 間隙堆填擴散                      |
| interval test                           | 間隔試驗 { 疲勞試驗 }               |
| intra aortic balloon pump (IABP)        | 主動脈內氣球泵                     |
| intracorneal implant                    | 角膜內植入物                      |
| intracrystalline fracture               | 晶粒內破斷                       |
| intracutaneous reactivity               | 皮內反應[測試]                    |
| intramolecular polymerization           | 分子內聚合反應                     |
| intraocular lens (IOL)                  | 人工水晶體；眼內水晶體                 |
| intraocular lens implant                | 眼內透鏡植入物；眼內透鏡植入體 { 俗稱人工水晶體 } |
| intraocular lenses (IOLs)               | 眼內透鏡 { 俗稱水晶體 }              |
| intra-proximity effect                  | [圖案]內鄰近效應                   |
| intrauterine contraceptive device (IUD) | 子宮內避孕器                      |

|  |  |
|--|--|
| intravenous administration               | 靜脈用藥                                       |
| intrinsic                                | 本質   |
| intrinsic anisotropy                     | 本質異向性                                      |
| intrinsic carrier concentration          | 本質載子濃度                                     |
| intrinsic conductivity                   | 本質導電度                                      |
| intrinsic diffusion coefficient          | 本質擴散係數                                     |
| intrinsic elemental semiconductor        | 本質元素型半導體                                   |
| intrinsic semiconduction                 | 本質半導體性                                     |
| intrinsic semiconductor                  | 本質半導體性                                     |
| intrinsic semi-conductor                 | 本質半導體                                      |
| intrusion                                | 侵入   |
| intrusion aid                            | 侵入劑  |
| intumescence                             | 脹大；膨脹；腫大                                   |
| intumescent coating                      | 膨脹型塗佈                                      |
| Invar [steel]                            | 恆範鋼 { 35-36%Ni · 0.5%Mn · 0.1-0.3%C 之鐵合金 } |
| invariant plane strain                   | 不變平面應變                                     |
| invariant point                          | 無變度點 { 相平衡圖 }                              |
| invariant reaction                       | 無變度反應                                      |
| inverse annealing                        | 逆退火  |
| inverse chill                            | 逆冷硬  |
| inverse Faraday effect                   | 反法拉第效應                                     |
| inverse Hall-Petch behavior              | 反霍爾-佩奇行為                                   |
| inverse lever rule                       | 反槓桿法則                                      |
| inverse photoelectron spectroscopy (IPS) | 逆光電子能譜術                                    |
| inverse segregation                      | 逆偏析  |
| inverse-rate curves                      | 反率曲線 { 時間/溫度 }                             |
| inversion                                | 轉化；反轉                                      |
| invert glass                             | 轉化玻璃                                       |
| invertase                                | 轉化酶  |
| intervertebral disk herniation           | 椎間盤突出症；椎間盤易位症                              |

|  |                         |
|--|-------------------------|
| invertebral disk replacement           | 椎間盤置換                   |
| invertebrate collagen                  | 無脊椎動物膠原蛋白               |
| inverted die                           | 倒置模                     |
| inverted extrusion                     | 逆擠型                     |
| inverted spinel                        | 逆尖晶石                    |
| inverter                               | 轉換器；反相器                 |
| Investigational Device Exemption (IDE) | 醫療器材臨床試驗申報              |
| Investigational New Drug (IND)         | 新藥臨床研究申請                |
| investment casting                     | 包模澆注；包模鑄造；精密澆注          |
| investment molding                     | 包模造模法                   |
| in-vitro test                          | 器皿內試驗 { 俗稱體外試驗，與活體隔絕 }  |
| in-vivo test                           | 體內試驗                    |
| iochrome                               | 碘解銻 { 一種以碘化物分解法製出的高純銻 } |
| iodide process                         | 碘化物精練法                  |
| iodine (I)                             | 碘                       |
| iodine number                          | 碘值                      |
| ion                                    | 離子                      |
| ion beam lithography                   | 離子束微影術；離子束石刻術           |
| ion bombardment etching                | 離子衝擊蝕刻法                 |
| ion channel                            | 離子通道                    |
| ion core                               | 離子核                     |
| ion etching                            | 離子蝕刻                    |
| ion exchange                           | 離子交換                    |
| ion exchange membrane (IEM)            | 離子交換膜                   |
| ion exclusion                          | 離子排斥                    |
| ion implantaion                        | 離子植入                    |
| ion-concentration cell                 | 離子濃差電池                  |
| ion-exchange chromatography            | 離子交換層析法                 |
| ion-exchange polymer                   | 離子交換高分子                 |
| ion-exchange resin                     | 離子交換樹脂                  |

|                              |                          |
|------------------------------|--------------------------|
| ion-exchange separation      | 離子交換分離                   |
| ionic activity coefficient   | 離子活性係數                   |
| ionic bond                   | 離子鍵                      |
| ionic bonding                | 離子鍵結                     |
| ionic conduction             | 離子傳導                     |
| ionic conductivity           | 離子導電性                    |
| ionic coordinate catalyst    | 離子配位觸媒                   |
| ionic crystal                | 離子性晶體                    |
| ionic crystal radius         | 離子晶體半徑                   |
| ionic crystal structure      | 離子晶體結構                   |
| ionic diffusion              | 離子擴散                     |
| ionic domain boundary        | 離子域界                     |
| ionic exchange               | 離子交換                     |
| ionic polarization           | 離子極化                     |
| ionic radius                 | 離子半徑                     |
| ionic solid                  | 離子固體                     |
| ionic strength               | 離子強度                     |
| ionic transference number    | 離子轉換數                    |
| ionic-covalent mixed bonding | 離子共價混合鍵結                 |
| ionisation, anode process    | 游離；離子化，陽極程序；陽極製程         |
| ionitriding                  | 離子氮化                     |
| ionium (Io)                  | 鐳 { 同 Einsteinium · Es } |
| ionization                   | 離子化；游離化                  |
| ionization energy            | 游離能                      |
| ionization gauge             | 游離壓力計                    |
| ionization potential         | 游離電位                     |
| ionization vacuum gauge      | 游離真空計                    |
| ionizing agent               | 游離劑                      |
| ionomer                      | 離子聚合物                    |
| ionophoresis                 | 離子電泳                     |
| ion-radical                  | 離子-自由基                   |
| iridescence                  | 暈彩；虹彩                    |

|                           |             |
|---------------------------|-------------|
| iridium (Ir)              | 銱           |
| irising                   | 生暈          |
| iron (Fe)                 | 鐵           |
| iron bacteria             | 腐鐵細菌        |
| iron bar                  | 鐵條          |
| iron brass                | 含鐵黃銅        |
| iron carbide              | 碳化鐵         |
| iron carbonate            | 碳酸鐵         |
| iron casting              | 鐵鑄件         |
| iron cement               | 鐵水泥         |
| iron foundry              | 鑄鐵工廠        |
| iron glance               | 鏡鐵礦         |
| iron making               | 煉鐵          |
| iron modulus              | 鐵模數         |
| iron notch                | 出鐵口         |
| iron ore                  | 鐵礦          |
| iron oxide                | 氧化鐵         |
| iron pattern              | 鐵模型         |
| iron pyrite               | 黃鐵礦         |
| iron scrap                | 廢鐵          |
| iron selenide             | 硒鐵 { FeSe } |
| iron silicate             | 矽酸鐵         |
| iron spot                 | 鐵斑          |
| iron stone                | 鐵質石         |
| iron sulphide             | 硫化鐵         |
| iron tap hole             | 出鐵口         |
| iron wire                 | 鐵絲          |
| iron-air battery          | 鐵-空氣電池      |
| iron-carbon alloy         | 鐵碳合金        |
| iron-carbon diagram       | 鐵碳平衡圖       |
| iron-carbon phase diagram | 鐵-碳相圖       |
| iron-carbon system        | 鐵-碳系統       |
| iron-constantan couple    | 鐵-康史登銅熱電偶   |

|                                       |   |
|---------------------------------------|---|
| iron-disilicide                       | 二矽化鐵 { 一種熱電材料 }   |
| ironing                               | 熨平 ; 引縮   |
| iron-iron carbide equilibrium diagram | 鐵-碳化鐵平衡相圖   |
| ironstone china                       | 硬質陶器  |
| iron-zirconium pink                   | 鐵銛紅   |
| IRP (integrated resource planning)    | 整合資源計畫  |
| irradiation                           | 照射 ; 輻照   |
| irradiation damage                    | 照射損傷  |
| irradiation growth                    | 照射增長  |
| irregular powder                      | 不規則粉末   |
| irreversibilities                     | 不可逆性  |
| irreversible precipitation            | 不可逆析出   |
| irreversible reaction                 | 不可逆反應   |
| irreversible steel                    | 變態遲滯鋼 ; 不可逆變態鋼 { 如含 12-20%Ni · 0.20%C 之鋼 · $\alpha \rightarrow \gamma$ or $\gamma \rightarrow \alpha$ } |
| Isbeil de-zincing process             | 伊斯拜去鋅法  |
| ischemic heart disease                | 缺血性心臟病  |
| Ising model                           | 易辛模型  |
| island structure                      | 島狀組織  |
| isocarb map                           | 等碳線圖  |
| isochromatic fringe                   | 等色紋   |
| isocline angle                        | 等傾角   |
| isoclinic line                        | 等傾角線  |
| isocorrosion chart                    | 腐蝕圖   |
| isocyanate                            | 異氰酸酯  |
| isoelastic alloy                      | 恆彈性合金   |
| isoelastic steel                      | 恆彈性鋼  |
| isoelectric point                     | 等電點   |
| iso-hardness diagram                  | 恆硬度曲線圖  |
| isoionic dilution                     | 等離子稀釋   |
| isomagnetic line                      | 等磁線   |
| isomer                                | [同素]異構物   |

|   |                          |
|---|--------------------------|
| isomer shift                              | 同質異構物位移 { 光譜 }           |
| isomerase                                 | 異構酶                      |
| isomeride                                 | 同分異構物                    |
| isomerism                                 | 異構現象 ; 異構性               |
| isomerization                             | 異構化                      |
| isometric system                          | 等軸晶系                     |
| isomorphous binary alloy system           | 同質異晶二元合金系統               |
| isomorphism                               | 異質同結構                    |
| isomorphous alloy                         | 同質異晶合金                   |
| isonitrile                                | 異氰化物                     |
| isopropyl alcohol (2-propanol)            | 異丙醇                      |
| isostatic powder pressing                 | 均壓粉末成型法                  |
| isostatic pressing                        | 均壓法 ; 等壓壓製 ; 等力加壓 ; 均力加壓 |
| isostrain condition                       | 等應變情況 { 長纖複材用 }          |
| isostress condition                       | 等應力情況 { 長纖複材用 }          |
| isotactic chain                           | 同排鏈                      |
| isotacticity                              | 同排性                      |
| isothermal                                | 等溫 ; 恆溫                  |
| isothermal annealing                      | 恆溫退火                     |
| isothermal compression                    | 恆溫壓縮                     |
| isothermal cooling                        | 恆溫冷卻                     |
| isothermal cooling transformation diagram | 恆溫冷卻轉變圖 ; 恆溫冷卻變態圖        |
| isothermal decomposition                  | 恆溫分解                     |
| isothermal grain growth                   | 恆溫晶粒成長                   |
| isothermal hardening                      | 恆溫硬化                     |
| isothermal heat treatment                 | 恆溫熱處理                    |
| isothermal normalizing                    | 恆溫正常化                    |
| isothermal quenching                      | 恆溫淬火                     |
| isothermal section                        | 等溫截面                     |
| isothermal spheroidizing                  | 恆溫球化                     |
| isothermal tempering                      | 恆溫回火                     |

|  |                         |
|--|-------------------------|
| isothermal thermomechanical treatment (isothermal TMT) | 恆溫熱機處理                  |
| isothermal TMT   | 恆溫熱加工處理                 |
| isothermal transformation                              | 恆溫轉變 ; 恆溫變態             |
| isothermal transformation case hardening               | 恆溫變態表面硬化                |
| isothermal transformation diagram (ITT diagram)        | 恆溫轉變圖 ; 恆溫變態圖 { S 曲線圖 } |
| isothermal transstressing                              | 恆溫變態負荷處理                |
| isotope  | 同位素                     |
| isotope ion evaporation                                | 同位素離子蒸鍍法                |
| isotopic labeling                                      | 同位素標誌                   |
| isotridecyl alcohol                                    | 異十三醇                    |
| isotropic dirty limit superconductor                   | 等向污質極限超導體               |
| isotropic etching process                              | 等向蝕刻製程                  |
| isotropic material                                     | 等向性材料                   |
| isotropic substance                                    | 等方性物質 ; 各向同性物質          |
| isotropy   | 等向性                     |
| Italian tile   | 義大利式面磚                  |
| I-V characteristics                                    | 電流-電壓特性 ; 伏安特性          |
| Izett steel  | 艾宰特鋼                    |
| Izod impact test                                       | 愛曹特衝擊試驗                 |



# J

|                                     |   |
|-------------------------------------|---|
| J integral                          | J 積分                                    |
| jack arch                           | 平拱                                      |
| Jackquet polishing technique        | 傑魁德拋光術                                  |
| Jadeite                             | 硬玉                                      |
| jamb wall                           | 側牆                                      |
| Japanese Industrial Standards (JIS) | 日本工業標準                                  |
| jar mill                            | 罐磨機                                     |
| jasper ware                         | 賈士巴陶石器                                  |
| jaw bone                            | 頷骨                                      |
| jaw crusher                         | 顎式軋碎機                                   |
| jellium model                       | 果凍模型                                    |
| jellium-shell model                 | 果凍層模型                                   |
| jena glass                          | 耶那玻璃                                    |
| Jenolite                            | 吉諾除鏽劑                                   |
| jet dryer                           | 噴射乾燥器                                   |
| jet hardening                       | 噴流硬化                                    |
| jet quenching                       | 噴流淬火                                    |
| jet vapor deposition                | 噴氣沉積                                    |
| jeweller's enamel                   | 珍飾琺瑯                                    |
| jeweller's rough                    | 飾物磨料 { Fe <sub>2</sub> O <sub>3</sub> } |
| jigger                              | 陶車；輪車；轆轤；旋坯；拉坯                          |
| jigging                             | 旋坯法；拉坯法                                 |
| jiggerman                           | 旋坯工；拉坯工                                 |
| jigging procedure                   | 跳動法                                     |
| job test specimen                   | 工作試體                                    |
| jobbing foundry                     | [雜]訂貨鑄工場                                |
| jog                                 | 差階 { 差排 }                               |
| Johnson-Mehl-Avrami equation        | 強生-梅爾-阿夫拉米方程式                           |
| joining                             | 接合                                      |
| joint efficiency                    | 接合效率                                    |
| joint face                          | 合模面                                     |

|  |                      |
|--|----------------------|
| joint fin                              | 合模飛邊                 |
| joint implant                          | 關節植入體；關節植入物          |
| joint line                             | 接縫                   |
| joint replacement                      | 關節置換                 |
| joint sealing                          | 合模填縫                 |
| jolley                                 | 輪車；拉坯；旋坯             |
| jolleying                              | 輪車；拉坯；旋坯             |
| jolt molding machine                   | 震動造模機                |
| jolt moulding                          | 震搗模製[法]              |
| jolt squeeze molding machine           | 震動擠壓造模機              |
| jolt squeeze stripping molding machine | 震動擠壓拔模造模機            |
| Jominy end quench test                 | 喬米尼端面淬火實驗            |
| Jominy hardenability test              | 喬米尼硬化能試驗             |
| Josephson effect                       | 約瑟夫森效應               |
| Josephson junction                     | 約瑟夫森界面               |
| Josephson tunneling                    | 約瑟夫森穿隧效應             |
| Joule effect                           | 焦耳效應                 |
| joule heat                             | 焦耳熱                  |
| Joule-Thomson effect                   | 湯姆生效應 { 熱電 }         |
| Jovignot test                          | 喬為諾[衝杯]試驗            |
| jump frequency                         | 跳躍頻率                 |
| Junghans-Rossi process                 | 姜韓-羅斯法 { 非鐵合金連續鑄造法 } |
| jute fiber                             | 黃麻纖維                 |

## K

|                          |  |
|--------------------------|--|
| Kaldo process            | 卡都煉鋼法  |
| Kaller's reagent         | 卡勒蝕劑   |
| Kanigen plating          | 康尼根電鍍法 { 磷鎳電鍍法 }                               |
| Kanthal alloy            | 康達合金 { 一種含鋁鐵鉻鈷等系種多元高電阻合金 }                     |
| kaolin                   | 高嶺土  |
| kaolinite                | 高嶺石；高嶺土  |
| kaolinization            | 高嶺土化[作用]                                       |
| kapok                    | 木棉   |
| kappa carbide            | 卡帕碳化物；κ碳化物                                     |
| karat                    | 克拉 { 200mg 鑽石 } ；<br>開 { 金成分 }                 |
| karaya gum               | 加拉亞膠   |
| Karma alloy              | 卡馬合金 { 一種含<br>Ni80%-Cr20%之高電阻<br>及高抗氧化性合金 }    |
| Kasper's polyhedron      | 卡斯珀多面體   |
| Kassel kiln              | 克色[平焰]窯  |
| Keene's cement           | 克恩水泥   |
| Keggin structure         | 柯金結構   |
| Keller furnace           | 凱勒電弧爐  |
| Keller's reagent         | 凱勒浸蝕劑  |
| Keller's spark test      | 凱勒氏火花試驗  |
| Kelly ball test          | 克里球試驗  |
| Kelly filter press       | 凱利壓濾機  |
| Kelly sedimentation tube | 克里沉積管  |
| Kelmet bronze            | 凱爾米青銅 { 含<br>6%Sn · 24%Pb · 其餘<br>為 Cu }       |
| Kelvin temperature scale | 克耳文溫標  |
| kerf                     | 刻幅   |
| Kermet                   | 克麥特[軸承]青銅 { 含<br>60-70%Cu · 2%Ni · 其<br>餘 Pb } |
| kernite                  | 單斜硼砂   |
| kerosene                 | 煤油   |

|                        |  |
|------------------------|--|
| ketoketene             | 酮基乙烯酮  |
| ketone                 | 酮  |
| key brick              | 鍵磚；楔形磚   |
| keyhole notch          | 鑰孔形槽   |
| key-lock principle     | 鑰鎖理論   |
| K-flow                 | K 潛伸 { 第二階段潛變 }                                |
| kibushi-clay           | 木節土  |
| KIC fracture toughness | KIC 破裂韌性；KIC 破壞韌性 { 平面應變 }                     |
| kidney                 | 腎臟   |
| kidney ore             | 腎鐵礦；赤鐵礦；輝鐵礦 { Fe <sub>2</sub> O <sub>3</sub> } |
| kieselguhr             | 矽藻土  |
| Kikuchi diffraction    | 菊池繞射   |
| Kikuchi line           | 菊池線  |
| killed spirit          | 錫焊液 { 飽和氯化鋅水溶液 }                               |
| killed steel           | 全靜鋼；淨靜鋼  |
| killling               | 淨靜處理   |
| kiln                   | 窯；大烘箱  |
| kiln basin             | 料漿池  |
| kiln bedding           | 窯料層  |
| kiln car               | 窯車   |
| kiln crown             | 窯頂   |
| kiln floor             | 窯床   |
| kiln foundation        | 窯基   |
| kiln furniture         | 窯具   |
| kiln lining            | 窯襯   |
| kiln pier              | 窯台   |
| kiln quadrant          | 窯象限  |
| kiln shell             | 窯殼   |
| kinematic viscosity    | 動態黏度；動黏度                                       |
| kinesin                | 驅動蛋白   |
| kinetic chain length   | 動力學鏈長  |
| kinetic energy         | 動能   |

|                             |                      |
|-----------------------------|----------------------|
| kinetic theory              | 動力理論                 |
| kinetics                    | 動力學                  |
| Kinetics of degassing       | 去氣動力學                |
| kininogen                   | 激肽原                  |
| kink                        | 紐結 { 差排 }            |
| kink band                   | 紐結帶                  |
| Kip                         | 仟磅 { 美國名詞 }          |
| Kirchhoff's law             | 克希荷夫定律               |
| Kirkendall diffusion couple | 克根達擴散偶               |
| Kirkendall effect           | 克根達效應 { 擴散 }         |
| Kirkendall marker           | 克根達標記                |
| Kirsch test                 | 克希[硬度]試驗             |
| kish graphite               | 漂浮游離石墨               |
| Klein turbidimeter          | 凱林濁度計                |
| Klemm's reagent             | 克里姆浸蝕劑               |
| kneader                     | 拌砂機                  |
| knee replacement            | 膝關節置換                |
| knife-edge attack           | 刀鋒侵蝕 { 不鏽鋼母材熔區深狹裂縫 } |
| knife-line attack           | 刀式侵蝕                 |
| knobbed iron                | 熟鐵                   |
| knobbling                   | 滾跡                   |
| knocking                    | 敲震；瀘渣                |
| knock-on damage             | 撞擊損傷 { 核子 }          |
| knock-out                   | 砂心震除                 |
| Knoop hardness              | 羅普硬度                 |
| Knoop hardness test         | 羅普硬度試驗               |
| Knoop indentation test      | 努氏壓痕試驗               |
| Knoop indenter              | 羅普壓痕器                |
| knot                        | 節                    |
| knot formation theory       | 結節理論                 |
| knuckle-joint press         | 關節壓機                 |
| Knurling                    | 滾紋法                  |
| KOH circulation loop        | 氫氧化鉀循環迴圈 { 聯胺-空氣系統 } |

|                                     |  |
|-------------------------------------|--|
| KOH-electrolyte                     | 氫氧化鉀電解質 { 混合車 }  |
| Kohn pipette                        | 丘氏吸管   |
| Konal alloy                         | 柯納爾合金 { 一種含 70%Ni · 20%Co · 7%Fe · 3%Ti · 耐高溫耐氧化之合金 }    |
| Kondo effect                        | 近藤效應   |
| Kondo temperature                   | 近藤溫度   |
| Konel alloy                         | 柯奈爾合金 { 含 25%Cu · 20%Cr · 8%Fe · 2.5%Ti 耐高溫 · 耐氧化之鎳基合金 } |
| Kovar alloy                         | 柯華合金 { 一種含 25%鎳 · 25%鈷之鐵合金 · 其熱膨脹係數與硬玻璃相等 }              |
| Kramer's degeneracy                 | 克拉莫退化[性]   |
| Kramers' necklace theory            | 克拉馬項串理論  |
| Kramer's theorem                    | 克拉莫定理  |
| Kramers-Kronig analysis             | 克拉莫-克若尼分析  |
| Kröger-Vink notation                | 克羅格-文克符號   |
| Kroll process                       | 克羅爾法 { 生產海綿鈦之一種還原方法 }                                    |
| Kroning-Penney model                | 克朗尼格-潘納模型  |
| Krupp triple steel                  | 克魯伯三重鋼   |
| Krupp-Renn process                  | 克-侖氏製鐵法  |
| Kryptol                             | 克里普托爐襯料 { 石墨 · 碳化矽 · 黏土混合爐襯 }                            |
| krypton (Kr)                        | 氬  |
| KTI compact regenerative reformer   | KTI 小型化再生重組器   |
| Kuhl cement                         | 庫耳水泥   |
| kunzite                             | 紫鋰輝石   |
| kupfernickel                        | 紅砷鎳礦 { 砷化鎳 NiAs }  |
| kyanite                             | 藍晶石  |
| Kyopeulas crystal pulling technique | 開氏拉晶法  |
| Kyoto protocol                      | 京都議定書；京都協議書；京都條約   |

## L

|   |               |
|---|---------------|
| labdanum  | 勞丹脂；半日花脂；岩薔薇脂 |
| lab-on-a-chip   | 晶片上實驗室；實驗室晶片  |
| lab-on-a-chip (LOC)                                   | 實驗室晶片         |
| lac   | 蟲膠            |
| laccase   | 蟲漆酶           |
| LaCoO <sub>3</sub>                                    | 鈷酸鋇           |
| lacquer   | 漆；快乾漆         |
| LaCrO <sub>3</sub>                                    | 鉻酸鋇           |
| LaCrO <sub>3</sub> -LaCoO <sub>3</sub> solid solution | 鉻酸鋇-鈷酸鋇固溶體    |
| LaCrO <sub>3</sub> -LaMnO <sub>3</sub> solid solution | 鉻酸鋇-鋇錳氧固溶體    |
| lactam  | 內醯胺           |
| lactide   | 乳[酸]交酯        |
| lactoglobulin   | 乳球蛋白質         |
| lactone   | 內酯            |
| lactoprene  | 乳橡膠           |
| lacustrine clay                                       | 湖積黏土          |
| Ladd circular tunnel kiln                             | 雷氏圓形隧道窯       |
| ladder  | 支架            |
| ladle   | 盛桶；澆斗；熔桶；長柄勺  |
| ladle brick   | 溶液盛桶磚         |
| ladle degassing                                       | 盛桶脫氣          |
| ladle degassing method                                | 桶內脫氣法         |
| LaFeO <sub>3</sub> -LaCoO <sub>3</sub> solid solution | 鐵酸鋇-鈷酸鋇固溶體    |
| laitance  | 滲出物           |
| lake sand   | 湖砂            |
| Lambert's law   | 藍柏定律          |
| lamella   | 層；層狀物         |
| lamellae  | 層狀組織          |
| lamellae branching                                    | 層狀分支          |
| lamellar eutectic structure                           | 層狀共晶結構        |

|   |  |
|---|--|
| lamellar pearlite                                     | 層狀波來鐵  |
| lamellar structure                                    | 層狀組織   |
| lamina  | 層狀體  |
| laminar composite                                     | 層狀複材   |
| laminar pearlite                                      | 層狀波來鐵  |
| laminar   | 疊片；疊層；積層品；層板   |
| laminar ply   | 層板疊合   |
| laminated   | 積層的  |
| laminated glass                                       | 層合玻璃   |
| laminating  | 積層化；層合化  |
| lamination  | 積層；層合；堆疊；層狀組織  |
| lamination  | 疊片；夾層；層裂   |
| LaMnO <sub>3</sub> -LaCoO <sub>3</sub> solid solution | 錳酸鋇-鈷酸鋇固溶體   |
| LaMnO <sub>3</sub> -LaCrO <sub>3</sub> solid solution | 錳酸鋇-鉻酸鋇固溶體   |
| lamp base cement                                      | 燈泡黏合劑  |
| lamp black  | 燈煙   |
| lamp depreciation factor                              | 燈管折舊率  |
| lamp-blown  | 噴燈吹製   |
| lancing   | 清除；衝縫；吹氣 { 氧 }   |
| land  | 背緣 { 刀具 }  |
| lander  | 熔液流槽   |
| Langalloy   | 蘭格合金 { 鎳基鑄造材料 }  |
| Langmuir equation                                     | 朗繆方程式  |
| Langmuir monolayer                                    | 朗繆單層   |
| Langmuir-Blodgett film (LB film)                      | 朗繆-布羅吉膜  |
| lanthanum (La)  | 鋇  |
| lanthanum manganate                                   | 錳酸鋇 { LaMnO <sub>3</sub> }                             |
| lanthanum zirconate                                   | 鋇酸鋇 { La <sub>2</sub> Zr <sub>2</sub> O <sub>7</sub> } |
| Lanz pearlite iron                                    | 蘭茲[低碳]波來鐵鑄鐵  |
| lap   | 摺痕；研磨具；研磨材料；搭接   |
| lap joint   | 搭按   |

|  |               |
|--|---------------|
| lap welding                                    | 搭銲接           |
| lapping  | 研磨            |
| lapping powder                                 | 研磨粉           |
| large-angle-of-misfit                          | 大參差角          |
| large-scale integrated microelectronic circuit | 大型積體微電子電路     |
| larnite  | 矽灰石           |
| Larson Miller parameter                        | 拉-米氏參數 { 潛變 } |
| laser  | 雷射            |
| laser ablation                                 | 雷射剝離          |
| laser annealing                                | 雷射退火          |
| laser assisted direct imprint (LADI)           | 雷射輔助直接壓印      |
| laser beam machining                           | 雷射光束加工        |
| laser beam recorder mastering                  | 雷射束母片刻版       |
| laser beam welding                             | 雷射光束銲接        |
| laser cutting                                  | 雷射切割          |
| laser enrichment                               | 雷射濃縮法         |
| laser trap                                     | 雷射光捕捉 ; 雷射光鉗  |
| laser welding                                  | 雷射銲接          |
| laser window material                          | 雷射視窗材料        |
| latent degradation                             | 潛在降解          |
| latent heat                                    | 潛熱            |
| latent heat of fusion                          | 熔融潛熱          |
| latent heat of solidification                  | 凝固潛熱          |
| latent heat of sublimation                     | 昇華潛熱          |
| latent heat of transition                      | 轉移潛熱          |
| latent heat of vaporization                    | 蒸發潛熱          |
| lateral contraction                            | 側向收縮          |
| lateral force microscopy (LFM)                 | 側向力顯微術        |
| lateral growth                                 | 側邊成長          |
| lateral pressure                               | 側壓            |
| laterite                                       | 紅土            |
| latex  | 乳膠            |

|                                  |                 |
|----------------------------------|-----------------|
| lath martensite                  | 條狀麻田散鐵 ; 條狀麻田散體 |
| lathe                            | 車床              |
| lattice                          | 格子 ; 晶格         |
| lattice                          | 晶格              |
| lattice brick                    | 格子磚             |
| lattice constant                 | 格子常數 ; 晶格常數     |
| lattice defect                   | 格子缺陷 ; 晶格缺陷     |
| lattice distortion               | 晶格畸變            |
| lattice fringe                   | 晶格條紋            |
| lattice image                    | 晶格影像            |
| lattice parameter                | 格子參數 ; 晶格參數     |
| lattice plane                    | 晶格面 ; 晶面        |
| lattice relation                 | 晶格關係            |
| lattice strain                   | 晶格應變            |
| lattice structure                | 晶格結構            |
| lattice wave                     | 晶格波             |
| Laue equation                    | 勞氏方程式           |
| Laue method                      | 勞氏法             |
| Laue photograph                  | 勞氏相片            |
| Laue X-ray diffraction technique | 勞氏 X 光繞射技術      |
| launder                          | 流槽 { 熔流金屬通道 }   |
| launder                          | 熔液流槽            |
| lताल                             | 勞德鋁             |
| Laves' phase                     | 拉弗氏相            |
| lawrencium (Lr)                  | 鏷               |
| lay                              | 絞紋              |
| layer structure                  | 層狀結構            |
| layered double hydroxides (LDH)  | 層狀雙氫氧化物         |
| layered structure                | 成層結構            |
| lay-up                           | 積層法             |
| L-D process                      | L-D[吹氧煉鋼]法      |
| Le Chatelier flask               | 李氏比重瓶           |
| leaching                         | 瀝濾 ; 浸濾         |

|                               |                                   |
|-------------------------------|-----------------------------------|
| lead (Pb)                     | 鉛                                 |
| lead acid battery             | 鉛酸電池                              |
| lead annealing                | 鉛浴退火                              |
| lead bath                     | 鉛槽；鉛浴                             |
| lead bronze                   | 鉛青銅                               |
| lead bullion                  | [貴金屬之]鉛合金塊                        |
| lead burning                  | 鉛熔鋸                               |
| lead foil                     | 鉛箔 { 一般成份為 10-12%Sn, 1%Cu, 其餘為鉛 } |
| lead glaze                    | 鉛釉                                |
| lead oxide                    | 氧化鉛                               |
| lead patenting                | 鉛浴軋化退火                            |
| lead poisoning                | 鉛毒；中鉛毒                            |
| lead quenching                | 鉛浴粹火                              |
| lead solubility test          | 鉛溶度試驗                             |
| lead tree                     | 鉛樹                                |
| lead-base bearing metal       | 鉛基軸承合金                            |
| leaded brass                  | 鉛黃銅                               |
| leaded copper                 | 摻鉛銅                               |
| leadframe                     | 引線架                               |
| leadframe design              | 引線架設計                             |
| lead-free solder              | 無鉛錫料                              |
| leadless glaze                | 無鉛釉                               |
| lead-zirconate-titanate (PZT) | 鋇鈦酸鉛                              |
| leakage                       | 滲漏                                |
| leakage current               | 漏電流                               |
| leak-before-break design      | 洩漏防爆設計                            |
| lean clay                     | 貧黏土                               |
| lean sand                     | 低黏土砂                              |
| leather                       | 皮革                                |
| leather-hard                  | 半乾                                |
| leavening agent               | 變質劑                               |
| Leckis process                | 李基法 { 由礦石直接還原煉鋼法 }                |

|                         |  |
|-------------------------|--|
| lectin pathway          | 凝集[素]路徑  |
| ledeburite              | 粒滴斑鐵   |
| left lay                | 左旋絞紋   |
| Lehigh cracking test    | 李海裂縫試驗   |
| Lehigh slow bend test   | 李海緩慢彎曲試驗   |
| lehr                    | 徐冷窯  |
| Lemagol                 | 納麻戈耐火材料 { 含 60%MgO · 40%Al <sub>2</sub> O <sub>3</sub> 之鹼性耐火材料 } |
| Lennard-Jones potential | 連納-瓊司位勢  |
| lens                    | 透鏡；鏡頭  |
| lens-fronted tubing     | 凸面玻管   |
| leonardite              | 氧化褐煤   |
| lepidolite              | 鱗雲母  |
| Lepol process           | 雷波法 { 一種水泥製造法 }  |
| Lessing ring            | 勒辛陶圈   |
| leucine                 | 白胺酸  |
| leucite                 | 白榴子石   |
| leuco ester             | 無色酯  |
| levan                   | 同質聚糖；左旋聚糖；左聚糖  |
| levansucrase            | 左聚糖蔗糖酶   |
| level rule              | 槓桿律  |
| leveler                 | 校平機  |
| leveling                | 校平   |
| levelling               | 勻染   |
| lever relationship      | 槓桿關係   |
| lever rule              | 槓桿原理   |
| lever rule              | 槓桿定則   |
| levigation              | 淘析 { 粉粒大小區分 }  |
| levitation melting      | 懸浮熔融   |
| levulan                 | 皮膚光動力治療法   |
| Lewis acid              | 路易士酸   |
| Lewis acids             | 路易斯酸   |
| Lewis base              | 路易士鹼   |

|   |                      |
|---|----------------------|
| Lewisite  | 路易士毒氣 { 2-氯乙烯基二氯砷酸 } |
| Li/FeS <sub>2</sub> system                                | 鋰/二硫化鐵系統             |
| lifetime  | 全壽期；衰退期 { 半導體 }      |
| life-time   | 壽命                   |
| lift off cover furnace                                    | 離蓋式爐                 |
| lifter  | 提鉤；舉高機               |
| lift-of cover furnace                                     | 提蓋式爐                 |
| lift-off process  | 剝離製程                 |
| ligament  | 韌帶                   |
| ligand  | 配位體；配位基              |
| ligand shell  | 配位殼層                 |
| ligase  | 結合酶；黏結酶              |
| light alloy   | 輕合金                  |
| light amplification stimulated emission radiation (laser) | 雷射                   |
| light annealing   | 輕度退火                 |
| light attenuation   | 光衰減                  |
| light drawn   | 輕質拉伸                 |
| light emitting diode (LED)                                | 發光二極體                |
| light etching area  | 淺蝕刻區；淡蝕刻區            |
| light fastness  | 耐光性                  |
| light glass   | 低折射率[光學]玻璃           |
| light metal   | 輕金屬                  |
| light weight aggregate                                    | 輕質骨材                 |
| lighter flint   | 打火石；打火機燧石            |
| lighting compensator                                      | 光補償器                 |
| lighting efficiency                                       | 光效能                  |
| light-weight aggregate concrete                           | 輕質骨材混凝土              |
| lignin  | 木質素                  |
| lignite   | 褐煤                   |
| lignocellulose  | 木纖維素                 |
| lignosulfonate  | 木質磺酸鹽                |
| lignosulfonic acid  | 木質磺酸                 |

|   |                |
|---|----------------|
| lime                                    | 石灰             |
| lime boil                               | 石灰沸            |
| lime electrode                          | 鈣覆電熔接條         |
| lime kiln                               | 石灰窯            |
| lime refractory                         | 石灰耐火材          |
| lime saturation ratio                   | 石灰飽和比          |
| lime saturation value                   | 石灰飽和值          |
| lime silica ratio                       | 石灰矽石比          |
| lime-slag cement                        | 石灰熔渣水泥         |
| limestone                               | 石灰石            |
| lime-titania electrode                  | 鈣鈦覆層電熔接條       |
| limit of proportionality                | 比例極限           |
| limit of solubility                     | 溶解極限           |
| limited oxygen index                    | 限氧指數           |
| limiting creep stress                   | 極限潛變應力         |
| limiting current                        | 極限電流           |
| limiting diffusion current density      | 極限擴散電流密度       |
| limiting oxygen system                  | 限氧系統           |
| limiting range of stress                | 極限應力範圍         |
| limonene                                | 檸檬油精           |
| limonite                                | 褐鐵礦            |
| Lindemann glass                         | 林得曼玻璃          |
| line broadening                         | 譜線增寬           |
| line defect                             | 線缺陷 { 差排 }     |
| line dislocation                        | 線缺陷            |
| line spectra                            | 線光譜            |
| lineage structure                       | 系屬組織           |
| linear absorption coefficient           | 線性吸收係數         |
| linear atomic density                   | 線原子密度          |
| linear coefficient of thermal expansion | 線熱膨脹係數         |
| linear damage law                       | 線性損傷律 { 疲勞阻力 } |
| linear defect                           | 線缺陷            |

|   |  |
|---|--|
| linear polarization                     | 線性極化   |
| linear sweep voltammetry (LSV)          | 線性掃描伏安法  |
| liner                                   | 襯裡   |
| line-type metal                         | 成行鑄字版合金  |
| lining                                  | 襯裡；襯料  |
| lining brick                            | 襯磚   |
| lining furnace                          | 爐襯   |
| linoleum                                | 亞麻油地氈；油氈   |
| linseed oil                             | 亞麻籽油；亞麻仁油  |
| lint                                    | 棉絨   |
| linter                                  | 棉絨纖維   |
| lipase                                  | 酯鍵水解酵素；脂酶  |
| lipid nanotube                          | 脂質奈米管  |
| Li-polymer system                       | 鋰-高分子系統  |
| lipophile                               | 親油   |
| liposome                                | 微脂體；脂質體  |
| Lipowitz's Alloy                        | 李頗維茲易熔合金 { 一種含 Sn13.3% · Bi50% · Pb26.7% · Cd10%之易熔合金 · MP73°C } |
| liquation                               | 熔析法；熔融   |
| liquefaction                            | 液化   |
| liquefied petroleum gas (LPG) reforming | 液化石油氣重組  |
| liquid bath                             | 液浴   |
| liquid buffing                          | 噴液擦光   |
| liquid carbonitriding                   | 液體滲碳氮化法  |
| liquid carburizing                      | 液體滲碳法  |
| liquid chiller                          | 液體冷卻器  |
| liquid contraction                      | 液態收縮   |
| liquid crystal                          | 液晶   |
| liquid crystal templating               | 液晶模板   |
| liquid fuel                             | 液體燃料   |
| liquid gold                             | 金液   |
| liquid honing                           | 噴液搪磨   |

|   |               |
|---|---------------|
| liquid hydrogen   | 液態氫           |
| liquid membrane transport   | 液透膜輸送         |
| liquid metal corrosion  | 液態金屬腐蝕        |
| liquid metal forging  | 液態金屬鍛造        |
| liquid mix process  | 液態混合製程        |
| liquid nitriding  | 液體氮化法         |
| liquid phase epitaxy  | 液相磊晶法         |
| liquid phase sintering  | 液相燒結          |
| liquid silicate   | 水玻璃           |
| liquid squeezed ingot   | 除液鋼錠          |
| liquidity   | 流動性           |
| liquid-liquid extraction  | 液-液相萃取        |
| liquid-metal ion source (LIMIS)   | 液態金屬離子源       |
| liquidus  | 液相線           |
| liquidus line   | 液相線           |
| liquidus temperature  | 液相溫度          |
| litharge  | 密陀僧；氧化鉛       |
| lithium (Li)  | 鋰             |
| lithium acetylide   | 碳化鋰           |
| lithium alkoxide  | 醇鋰            |
| lithium drifted germanium (GeLi)  | 滲鋰鍺           |
| lithium ion (Li-ion) battery  | 鋰離子電池         |
| lithographic manipulation   | 微影操控；石刻操控     |
| lithographic galvanofornung abfornung (LIGA) { lithography, electroforming, and molding } | 光刻電鑄模造；微影電鑄模造 |
| lithography   | 石印術；微影術；微影製程  |
| lithol red  | 立索紅           |
| lithophane  | 透光浮雕          |
| lithosphere   | 地殼岩石層         |
| load  | 負荷；承載；產量      |



|                                    |                  |
|------------------------------------|------------------|
| load characteristics               | 負載特性             |
| load charge speed                  | 負載充電速度           |
| load elongation diagram            | 負荷伸長圖            |
| load factor                        | 負載因子             |
| load test furnace                  | 載重試驗爐            |
| load test under heat               | 加熱載重試驗           |
| load-bearing capacity              | 承載容量             |
| load-bearing tile                  | 承重磚              |
| loading                            | 荷重；加料            |
| loam                               | 壤土；泥砂漿           |
| loam molding                       | 泥砂造模法            |
| local action                       | 局部作用             |
| local annealing                    | 局部退火             |
| local cathode                      | 局部陰極             |
| local cell                         | 局部電池             |
| local hardening                    | 局部硬化             |
| local heating                      | 局部加熱             |
| local ordering                     | 局部序化             |
| local oxidation                    | 局部氧化             |
| local strain                       | 局部應變             |
| local stress                       | 局部應力             |
| local tunneling spectroscopy (LTS) | 局部穿隧譜術           |
| localized attack                   | 局部腐蝕             |
| localized corrosion                | 局部性腐蝕            |
| localized tempering                | 局部回火             |
| lock-and-key theory                | 鎖-鑰理論            |
| locked die                         | 互鎖模              |
| locked moment magnetism            | 鎖矩磁性             |
| locking effect                     | 固著作用             |
| locust bean gum                    | 刺槐豆膠             |
| Lo-Ex                              | 羅艾斯合金 { 低膨脹鋁合金 } |
| logarithmic creep law              | 對數潛變定律           |

|   |                  |
|---|------------------|
| logarithmic viscosity number                    | 對數黏度值            |
| London standard silver                          | 倫敦標準銀            |
| long glass                                      | 緩硬玻璃             |
| long range force                                | 遠程力；長程力          |
| long range order (LRO)                          | 長程有序             |
| long range ordering                             | 長程序化             |
| longitudinal direction                          | 縱向；縱軸方向          |
| longitudinal loading                            | 縱向負載             |
| long-line current                               | 長距電流             |
| long-range order                                | 長程序化；長距序化        |
| long-range order parameter                      | 長程規律參數           |
| long-time energy storage                        | 長期能量儲存           |
| loom  | 織機               |
| lordotic anterior cervical fusion spacer        | 前路腰椎融合器          |
| Lorentz factor                                  | 勞倫斯因數            |
| Lorentz microscope                              | 勞倫茲顯微鏡 { 磁力觀測 }  |
| Lorentz microscopy                              | 勞倫茲顯微術           |
| Lorentz transmission electron microscopy (LTEM) | 勞倫茲穿透式電子顯微鏡術     |
| Lorentz-polarization factor                     | 勞倫斯偏極化因數         |
| loss angle                                      | 損失角              |
| loss factor                                     | 損失因子             |
| loss on ignition (LOI)                          | 燒失量              |
| losse tool                                      | 活動工具             |
| lost wax molding                                | 脫臘造模法            |
| lost wax process                                | 脫臘法 { 包模鑄造法 }    |
| lost-wax casting                                | 脫臘鑄造             |
| lotus effect                                    | 蓮花效應             |
| low angle boundary                              | 低角度晶界 { 傾角 }     |
| low angle dislocation structure (LADS)          | 低角度差排結構 { 退火回復 } |
| low angle grain boundary                        | 低角度晶界            |

|  |             |
|--|-------------|
| low bainite                              | 下變韌鐵；下變韌體   |
| low brass                                | 低黃銅         |
| low carbon steel                         | 低碳鋼         |
| low dew point drier                      | 低露點乾燥機      |
| low energy electron diffraction (LEED)   | 低能[量]電子繞射   |
| low frequency induction furnace          | 低週波感應電爐     |
| low heating value (LHV)                  | 低加熱值        |
| low melting point alloy                  | 低熔點合金       |
| low pressure sodium lamp                 | 低壓鈉燈        |
| low temperature brittleness              | 低溫脆性        |
| low temperature fuel cell                | 低溫燃料電池      |
| low temperature heat recovery            | 低溫熱回收       |
| low temperature treatment                | 低溫處理        |
| low-alkali cement                        | 低鹼水泥        |
| low-alloy steel                          | 低合金鋼        |
| low-angle grain boundary                 | 低角晶[粒]界     |
| low-angle light-scattering               | 低角度光散射      |
| low-blow brittle transition (LBBT)       | 輕擊轉脆溫度      |
| low-cycle fatigue                        | 低週期疲勞       |
| low-duty fireclay brick                  | 低溫火黏土磚      |
| lower bainite                            | 下變韌鐵；下變韌體   |
| lower critical cooling velocity          | 下臨界冷卻速度     |
| lower critical field                     | 下臨界磁場；下臨界電場 |
| lower die                                | 下模          |
| lower punch                              | 下衝頭         |
| lower roll                               | 下輥          |
| lower yield point                        | 下降伏點        |
| lowest occupied molecular orbital (LOMO) | 最低佔有分子軌域    |

|  |                     |
|--|---------------------|
| lowest unoccupied molecular orbital (LUMO) | 最低未佔有分子軌域           |
| low-expansion alloy                        | 低膨脹合金               |
| low-expansion glass                        | 低脹玻璃                |
| low-frequency induction furnace            | 低頻[率]感應[電]爐         |
| low-heat cement                            | 低熱水泥                |
| low-heat portland cement                   | 低熱波特蘭水泥             |
| low-hydrogen electrode                     | 低氫銲接條；低氫電極          |
| low-melting enamel                         | 低熔搪瓷                |
| low-silicon bronze                         | 低矽青銅                |
| low-temperature carbonization              | 低溫碳化                |
| low-volatile bituminous coal               | 低揮發性煙煤              |
| low-zinc brass                             | 低鋅黃銅                |
| Loxal process                              | 洛克色法 { 銅鍍層草酸轉變法 }   |
| lubricant                                  | 潤滑劑                 |
| lubricating grease                         | 潤滑脂                 |
| lubrication                                | 潤滑作用                |
| lubricity                                  | 潤滑性                 |
| Lucalox                                    | 透光氧化鋁               |
| lucite                                     | 留西特 { 一種透明壓克力樹脂 }   |
| Lüders band                                | 呂德帶 { 變形滑帶 }        |
| Lüders lines                               | 呂德線 { 變形滑帶 }        |
| lumen                                      | 流明                  |
| lumen method                               | 流明法                 |
| luminescence                               | 發光；螢光               |
| luminescent enamel                         | 發光瑤瑯；發光搪瓷           |
| luminous flux                              | 光通量                 |
| luminous paint                             | 發光漆                 |
| lumnite cement                             | 高鋁水泥 { 商品名 }        |
| lump ore                                   | 塊礦                  |
| lusec                                      | 洛塞克 { 真空洩漏率及流動率單位 } |
| lutetium (Lu)                              | 鐳                   |

|                   |                |
|-------------------|----------------|
| luting            | [泥]補縫          |
| lycopodium power  | 石松子粉 { 砂模離型劑 } |
| Lycurgus cup      | 萊克爾加斯酒杯        |
| lye               | 草灰；鹼水          |
| lyophilic colloid | 親液膠體           |
| lyophilic group   | 親液群；親液基        |
| lyophobic colloid | 疏液膠體           |
| lyophobic group   | 疏液群；疏液基        |
| lysosome          | 溶小體            |
| lysozyme          | 溶菌酶            |

## M

|                                   |                            |
|-----------------------------------|----------------------------|
| M.B.V. process                    | M.B.V.法 { 鉛之化學浸滴法，以產生氧化膜 } |
| macadam                           | 碎石路                        |
| Macarthur-Forrest process         | 麥弗二氏法 { 由礦石中提取金銀之氰化法 }     |
| MacDougall roasting furnace       | 麥克道格焙燒爐                    |
| machinability                     | 切削性；機製性                    |
| machine forging                   | 機械鍛造                       |
| machine molding                   | 機械造模                       |
| machinery steel                   | 機械用鋼                       |
| machining                         | 切削                         |
| machining quality                 | 切削性                        |
| Mack's cement                     | 麥克膠合劑                      |
| macro etching                     | 巨觀浸蝕                       |
| macrocrystallinity                | 巨結晶度                       |
| macrocyclic ester                 | 巨環酯                        |
| macroform anisotropy              | 巨型異向性                      |
| macrograph                        | 巨觀照片                       |
| macrography                       | 巨觀照相術                      |
| macroinitiator                    | 大分子起始劑                     |
| macroion                          | 巨離子                        |
| macrolattice                      | 巨晶格                        |
| macromechanics                    | 巨觀力學                       |
| macromolecular colloid            | 巨分子型膠體                     |
| macromolecular substitution route | 大分子置換途徑                    |
| macromolecule                     | 巨分子                        |
| macrostructure                    | 巨觀組織；肉眼組織                  |
| Madelung number                   | 馬德隆數 { 離子鍵用 }              |
| Madsenell process                 | 馬德西奈法                      |
| mafic mineral                     | 鐵鎂礦物                       |
| magic angle spinning (MAS)        | 魔角自旋                       |
| magic cluster                     | 神奇團簇                       |

|                                |                       |
|--------------------------------|-----------------------|
| magic number { atoms }         | 魔數；神奇數；幻數             |
| magnaflux inspection           | 磁力探傷檢驗                |
| magnaflux powder               | 磁檢鐵粉                  |
| magnaglo crack indication      | 磁光裂紋顯示                |
| magnaglo process               | 磁光檢驗法 { 一種檢查表面裂紋的方法 } |
| magnalium                      | 鎂鋁合金                  |
| magnesia                       | 氧化鎂；鎂氧；苦土             |
| magnesia brick                 | 鎂磚                    |
| magnesia cement                | 苦土水泥                  |
| magnesia clinker               | 鎂氧結塊                  |
| magnesia-alumina-titanate flux | 鎂鋁鈦助熔劑                |
| magnesia-chromite brick        | 鎂鉻磚                   |
| magnesioperrite                | 鎂鐵礦                   |
| magnesite                      | 菱鎂礦 { $MgCO_3$ }      |
| magnesite brick                | 鎂磚                    |
| magnesite-chrome brick         | 鎂鉻磚                   |
| magnesite-chrome refractory    | 鎂鉻耐火材                 |
| magnesium (Mg)                 | 鎂                     |
| magnesium aluminate            | 鋁酸鎂                   |
| magnesium carbonate            | 碳酸鎂                   |
| magnesium fluoride             | 氟化鎂                   |
| magnesium lime                 | 苦土質石灰                 |
| magnesium oxide                | 氧化鎂；鎂氧                |
| magnesium oxychloride cement   | 鎂氧氯水泥                 |
| magnesium sulfate              | 硫酸鎂                   |
| magnesium titanate             | 鈦酸鎂                   |
| magnesium-ferrosilicon         | 含鎂矽鐵                  |
| magnet steel                   | 磁石鋼；磁性鋼               |
| magnetherm process             | 鎂熱法                   |
| magnetic ageing                | 磁性時效                  |
| magnetic aging                 | 磁性時效                  |
| magnetic anisotropy            | 磁異向性                  |

|  |             |
|--|-------------|
| magnetic anisotropy energy (MAE)               | 磁異方性能量      |
| magnetic annealing                             | 磁性退火        |
| magnetic bacteria                              | 磁性細菌        |
| magnetic bead                                  | 磁珠          |
| magnetic bubble                                | 磁泡          |
| magnetic ceramics                              | 磁性陶瓷        |
| magnetic chuck                                 | 磁力夾頭        |
| magnetic conductivity                          | 磁導率         |
| magnetic crack detection                       | 磁力探傷檢驗      |
| magnetic deflection spectrometer               | 磁偏譜儀        |
| magnetic dipole                                | 磁偶極         |
| magnetic dipole moment                         | 磁性偶極矩       |
| magnetic disaccommodation                      | 磁性不調適性；磁性衰減 |
| magnetic domain                                | 磁域；磁區；磁疇    |
| magnetic domain wall                           | 磁區壁         |
| magnetic energy product                        | 磁能乘積        |
| magnetic enhanced reactive ion etching (MERIE) | 磁場強化反應離子蝕刻  |
| magnetic field                                 | 磁場          |
| magnetic field annealing                       | 磁場退火        |
| magnetic field cooling                         | 磁場冷卻        |
| magnetic field disorder                        | 磁[場]致無序     |
| magnetic field quenching                       | 磁場淬火        |
| magnetic field strength                        | 磁場強度        |
| magnetic field vector                          | 磁場向量        |
| magnetic flaw detection                        | 磁力探傷        |
| magnetic flux                                  | 磁通量         |
| magnetic flux density                          | 磁通密度        |
| magnetic flux quantum                          | 磁通量量子       |
| magnetic force microscopy (MFM)                | 磁力顯微術       |
| magnetic forming                               | 磁性成形        |
| magnetic hard material                         | 硬磁材料        |

|                                  |             |
|----------------------------------|-------------|
| magnetic heat treatment          | 磁性熱處理       |
| magnetic hysteresis loop         | 磁滯迴線        |
| magnetic hysteresis loss         | 磁滯損失        |
| magnetic induction               | 磁感應；磁性感應    |
| magnetic inspection              | 磁性檢驗        |
| magnetic iron ore                | 磁鐵礦         |
| magnetic lens                    | 磁透鏡         |
| magnetic material                | 磁性材料        |
| magnetic moment                  | 磁矩；磁力矩      |
| magnetic particle inspection     | 磁粉檢驗        |
| magnetic permeability            | 磁導率         |
| magnetic permeameter             | 導磁計         |
| magnetic perturbation            | 磁擾          |
| magnetic power test              | 磁粉檢驗        |
| magnetic property                | 磁性          |
| magnetic pulse forming           | 電磁脈動成形      |
| magnetic quantum number          | 磁量子數        |
| magnetic quench test             | 磁性淬火試驗      |
| magnetic resonance               | 磁共振         |
| magnetic resonance imaging (MRI) | 磁[共]振造影     |
| magnetic separation              | 磁性分離        |
| magnetic separator               | 磁力分離器       |
| magnetic shielding               | 磁遮蔽         |
| magnetic soft material           | 軟磁材料        |
| magnetic softening               | 磁性軟化處理      |
| magnetic steel                   | 磁性鋼         |
| magnetic storage                 | 磁記錄         |
| magnetic susceptibility          | 磁化率         |
| magnetic texture                 | 磁性織構        |
| magnetic transformation          | 磁性轉變；磁性變態   |
| magnetic transformation point    | 磁性轉變點；磁性變態點 |
| magnetic unit                    | 磁單位         |

|   |             |
|---|-------------|
| magnetic viscosity                            | 磁黏度         |
| magnetically hard ferrite                     | 鐵氧硬磁        |
| magnetically levitated train (maglev train)   | 磁浮列車        |
| magnetically soft ferrite                     | 鐵氧軟磁        |
| magnetism                                     | 磁[性]; 磁學    |
| magnetite                                     | 磁鐵礦         |
| magnetization                                 | 磁化; 磁化強度    |
| magnetization                                 | 磁化          |
| magnetized water                              | 磁化水         |
| magnetizing force                             | 磁化力         |
| magneto                                       | 永磁發電機       |
| magnetobacterium                              | 磁性細菌        |
| magnetobiexciton                              | 磁雙激子        |
| magnetocrystalline anisotropy                 | 磁晶異向性       |
| magnetocrystalline anisotropy energy          | 磁結晶異向能      |
| magnetodynamics                               | 磁動力學        |
| magnetoelastic effect                         | 磁彈效應; 磁彈性效應 |
| magnetoelasticity                             | 磁致彈性        |
| magnetoexciton                                | 磁激子         |
| magnetofluid dynamics                         | 磁流體動力學      |
| magneto hydrodynamics (MHD)                   | 磁流體動力學      |
| magnetomechanical loss                        | 磁機械損耗       |
| magneto-optic (MO) recording                  | 磁光記錄        |
| magneto-optical disc                          | 磁光碟片        |
| magneto-resistance                            | 磁阻          |
| magneto-resistive random access memory (MRAM) | 磁阻隨機記憶體     |
| magneto-resistive sensor                      | 磁阻感測器       |
| magneto-restrictive effect                    | 磁限效應        |
| magnetorheological fluid                      | 磁流變流體       |
| magnetospirillum                              | 磁螺旋菌        |
| magnetostatic coupling                        | 靜磁耦合        |
| magnetostatic energy                          | 靜磁能         |

|                                  |  |
|----------------------------------|--|
| magnetostriction                 | 磁致伸縮                                       |
| magnetostriction material        | 磁致伸縮材料                                     |
| magnetostrictive energy          | 磁致伸縮能                                      |
| magnetostrictive material        | 磁致伸縮材料                                     |
| magnetotactic bacteria           | 趨磁細菌                                       |
| magnetotactium                   | 趨磁菌  |
| magneto-thermal analysis (MTA)   | 磁熱分析                                       |
| magnox alloy                     | 鎂格諾斯合金 { 一種鎂基合金 }                          |
| magnuminium alloys               | 鎂鋁合金 { 含 10%Al · 0.2%Mn · 0-1.5%Si 之鎂基合金 } |
| Magolia metal                    | 馬歌尼亞合金 { 含 15%Sb · 5%Sn 之鉛基軸承合金 }          |
| main arch                        | 主拱   |
| main roll                        | 主輥   |
| main spindle                     | 主心軸  |
| maintenance                      | 保養   |
| maiolica                         | 馬爵利卡陶; 紋彩陶器                                |
| majolica                         | 馬爵利卡陶; 紋彩陶器                                |
| majority carrier                 | 主載子; 多數載子                                  |
| majority charge carrier          | 主要電荷載子                                     |
| majority-carrier device          | 主載子元件                                      |
| malachite                        | 孔雀石 { 天然鹼性碳酸銅 }                            |
| malcomizing                      | 麥可[氮化]處理                                   |
| maleic acid                      | 順丁烯二酸; 馬來酸                                 |
| maleimide                        | 順丁烯二亞醯胺; 馬來亞醯胺                             |
| malleability                     | 展性   |
| malleabilization                 | 展性化處理                                      |
| malleable cast iron              | 展性鑄鐵; 可鍛鑄鐵                                 |
| malleable casting                | 展性鑄件; 可鍛鑄件                                 |
| malleable nickel                 | 展性鎳  |
| malleable pig iron               | 展性[可鍛]鑄鐵用生鐵                                |
| malleablizing by decarburization | 脫碳展性處理                                     |

|                                 |                                  |
|---------------------------------|----------------------------------|
| malleablizing by graphitization | 石墨化展性處理                          |
| maltase                         | 麥牙糖酶                             |
| mandible                        | 下頷骨                              |
| mandrel                         | 心軸；模蕊                            |
| mangalloy                       | 高錳合金鋼                            |
| manganous oxide                 | 氧化[亞]錳                           |
| manganese (Mn)                  | 錳                                |
| manganese brass                 | 錳黃銅                              |
| manganese bronze                | 錳青銅                              |
| manganese carbide               | 碳化錳                              |
| manganese cast iron             | 錳鑄鐵                              |
| manganese glass                 | 錳玻璃                              |
| manganese migration             | 錳遷移                              |
| manganese nodule                | 錳質瘤塊                             |
| manganese ore                   | 錳礦                               |
| manganese steel                 | 錳鋼                               |
| manganese-alumina pink          | 錳鋁紅                              |
| manganese-copper alloys         | 錳銅合金                             |
| manganin                        | 錳鎳銅標準電阻合金                        |
| mangle                          | 捲揚乾燥器                            |
| mangonic                        | 錳格鎳合金 { 含 3%Mn 之鎳合金 }            |
| manifold                        | 歧管                               |
| Manila copal                    | 馬尼拉蠟                             |
| Manila hemp                     | 馬尼拉麻                             |
| manipulator                     | 機械手                              |
| mannan                          | 聚甘露糖                             |
| Mannesmann mill                 | 孟內斯曼壓軋機                          |
| Mannheim gold                   | 孟海金 { 含 10-20%Zn 之 $\alpha$ 黃銅 } |
| manometer                       | 壓力計                              |
| Manson-Haferd relationship      | 孟森-哈福瑞[潛變]關係率                    |
| mantel block                    | 擋磚[塊]                            |
| marageing steel                 | 麻時效鋼                             |

|                                    |                             |
|------------------------------------|-----------------------------|
| marble                             | 大理石                         |
| marble fracture                    | 大理石狀破裂                      |
| Marble's reagent                   | 馬伯試劑                        |
| marbling                           | 大理石紋釉                       |
| marcasite                          | 白鐵礦                         |
| marco-crystalline                  | 巨晶                          |
| margarite                          | 珍珠雲母                        |
| marine boiler                      | 船用鍋爐                        |
| marine clay                        | 海積黏土                        |
| marine corrosion                   | 海水腐蝕                        |
| Mariotte tube                      | 馬氏黏度計                       |
| marl                               | 泥灰岩                         |
| marmen alloy                       | 麻記合金 { 形狀記憶效應合金之別名 }        |
| marquench flame hardening          | 麻淬火火焰硬化                     |
| marquench stressing                | 麻淬火應力處理                     |
| marquenching                       | 麻淬火                         |
| marstraining                       | 麻應變處理                       |
| marstressing                       | 麻應力處理                       |
| martempering                       | 麻回火                         |
| martenaging                        | 麻時效 { 同 maraging }          |
| Marten's test                      | 馬丁試驗 { 鑽石劃痕硬度試驗 }           |
| martensite                         | 麻田散鐵；麻田散體                   |
| martensite finish temperature (Mf) | 麻田散體轉變完成溫度；麻田散體變態完成溫度       |
| martensite plain-carbon steel      | 麻田散鐵素碳鋼                     |
| martensite start temperature (Ms)  | 麻田散體轉變起始溫度；麻田散體變態起始溫度       |
| martensite transformation          | 麻田散體轉變；麻田散體變態               |
| martensitic cast iron              | 麻田散鑄鐵                       |
| martensitic stainless steel        | 麻田散不鏽鋼                      |
| martensitic transformation         | 麻田散鐵轉變；麻田散體轉變；麻田散鐵變態；麻田散體變態 |

|                               |                         |
|-------------------------------|-------------------------|
| Martin furnace                | 馬丁爐                     |
| martrix                       | 基地；基質                   |
| martrix alloy                 | 基地[易熔]合金 { 一種鉛錒錫易熔合金 }  |
| martrix structure             | 基地組織                    |
| mask exposure technique       | 光罩曝光技術                  |
| mask technique                | 光罩技術                    |
| mask technology               | 光罩技術學；光罩科技              |
| masking power                 | 遮蓋力                     |
| maskless structure generation | 無光罩結構世代                 |
| masonry                       | 石工術                     |
| masonry cement                | 壩砌水泥                    |
| mass defect                   | 質量欠缺 { 原子核質量與質子及中子質量差 } |
| mass effect                   | 質量效應                    |
| mass flow                     | 質量流量                    |
| mass number                   | [原子]質量數                 |
| mass spectrograph             | 質譜儀                     |
| mass spectrometer             | 質譜儀                     |
| mass spectrometry             | 質譜法                     |
| mass transfer                 | 質量傳遞                    |
| mass transfer coefficient     | 質量傳遞係數                  |
| mass transport loss           | 質量輸送損失                  |
| mass/energy relationship      | 質能關係式 { $E=mc^2$ }      |
| mass-action equilibria        | 質量作用平衡                  |
| mass-transfer rate            | 質量輸送速率                  |
| master alloy                  | 母合金                     |
| master die                    | 標準模；標準螺模                |
| master mold                   | 樣模；主模；母模                |
| master mould                  | 原形模；母模                  |
| master pattern                | 樣型；主模                   |
| master tempering curve        | 標準回火曲線                  |
| mastic                        | 膠泥；膠黏水泥                 |
| mastication                   | 捏和                      |
| masurium (Ma)                 | 鎊 { 現用鎊 · Tc }          |

|   |  |
|---|--|
| Matano interface                        | 侯野介面   |
| match edge                              | 配合邊  |
| match line                              | 配合線  |
| materials science and engineering (MSE) | 材料科學與工程  |
| materials selection                     | 材料選擇   |
| materials testing                       | 材料試驗   |
| matrix                                  | 基質   |
| matrix phase                            | 母相；基材相   |
| matt blue                               | 無光藍  |
| matt glaze                              | 無光釉  |
| matte                                   | 冰銅；鑲銅；毛面   |
| maturing range                          | 成熟範圍   |
| Maurer's diagram                        | 馬氏狀態圖  |
| maxilla                                 | 上頷骨  |
| maximum bending stress                  | 最大彎曲應力   |
| maximum deformation efficiency          | 最大變形效率   |
| maximum shear stress theory             | 最大剪應力理論  |
| Maxwell element                         | 麥克斯威爾元件  |
| Maxwell model                           | 麥克斯威爾模型  |
| Maxwell-Boltzman distribution           | 馬-波分佈  |
| Maxwell's demon                         | 馬克斯威爾的熵魔   |
| Mazak alloy                             | 梅薩克合金 { 一組基壓鑄合金 }                                  |
| mazarine blue                           | 寶藍   |
| Mckechnie's bronze                      | 麥基尼青銅 { 含 57%Cu · 1%Fe · 1%Sn · 0.5%Pb · 其餘為鋅之合金 } |
| McLeod gauge                            | 麥克勞真空針   |
| McQuaid-Ehn test                        | 麥奎-恩[滲碳]試驗 { 求沃斯田鐵晶粒大小 }                           |
| mean deformation resistance             | 平均變形阻力   |
| mean deformation velocity               | 平均變形速度   |
| mean field approximation                | 均場近似法  |



|                                     |                   |
|-------------------------------------|-------------------|
| mean field theory                   | 均場理論              |
| mean free path                      | 平均自由[路]程；平均自由[路]徑 |
| mean free path                      | 平均自由徑             |
| mean stress                         | 平均應力              |
| mean time of stay                   | 停留時間平均值 { 擴散用 }   |
| measure                             | 量度；測量             |
| mechanical alloying (MA)            | 機械合金法             |
| mechanical analysis                 | 機械分析              |
| mechanical attrition                | 機械攪磨[法]           |
| mechanical booster pump             | 機械升壓幫浦            |
| mechanical descaler                 | 機械式去鏽機            |
| mechanical efficiency               | 機械效率              |
| mechanical equivalent of heat       | 熱機械當量；熱功當量        |
| mechanical hysteresis               | 機械遲滯              |
| mechanical plating                  | 機械渡層法             |
| mechanical press                    | 機械式壓機；機力壓機        |
| mechanical property                 | 機械性質              |
| mechanical refining                 | 機械調質處理            |
| mechanical shovel                   | 機力鏟               |
| mechanical spalling                 | 機械剝落法             |
| mechanical strength                 | 機械強度              |
| mechanical testing                  | 機械試驗              |
| mechanical twin                     | 機械雙晶              |
| mechanical water                    | 機械水               |
| mechanical work                     | 機械加工              |
| mechanics of material               | 材料力學              |
| mechanism                           | 機制；機理；機構          |
| mechanochemical activation          | 機械化學活化            |
| mechanochemical signal transduction | 機械化學訊息傳遞          |
| mechatronics                        | 機電學               |
| medical fiber                       | 醫用纖維              |

|                                    |                   |
|------------------------------------|-------------------|
| medium                             | 培養基               |
| medium carbon steel                | 中碳鋼               |
| medium hard steel                  | 半硬鋼               |
| medium temperature heat recovery   | 中溫熱回收             |
| medium-carbon ferromanganese       | 中碳錳鐵              |
| medium-duty fireclay brick         | 中級火黏土磚            |
| medium-frequency induction furnace | 中週波感應爐            |
| medium-leaded brass                | 中度含鉛黃銅            |
| Meehanite cast iron                | 米漢納鑄鐵             |
| Meehanite process                  | 米漢納方法             |
| melaconite                         | 黑銅礦 { CuO }       |
| melamine                           | 三聚氰胺              |
| melt                               | 熔化；熔解；熔體          |
| melt spinning                      | 熔融紡絲；熔紡；旋噴熔煉；熔旋鑄法 |
| melting                            | 熔化                |
| melting area                       | 熔化區               |
| melting crucible                   | 熔化坩堝；熔解坩堝         |
| melting end                        | 熔化端               |
| melting furnace                    | 熔化爐；熔解爐           |
| melting intercalation              | 熔融插層              |
| melting point                      | 熔點                |
| melting range                      | 溶化範圍              |
| melting temperature                | 熔化溫度              |
| melting zone                       | 熔化帶；熔解帶           |
| melting-point depression           | 熔點下降              |
| membrane                           | 透膜；薄膜             |
| membrane attack complex (MAC)      | 補體複合物；透膜攻擊複合體     |
| membrane curing                    | 液膜養護              |
| membrane electrode assembly (MEA)  | 透膜電極組             |
| membrane fuel cell system          | 薄膜燃料電池系統          |
| membrane protein                   | [透]膜蛋白            |

|                                   |                     |
|-----------------------------------|---------------------|
| membrane pump                     | 薄膜泵                 |
| membrane reactor reformer         | 薄膜反應重組器             |
| membrane theory of plasticity     | 塑性液膜論               |
| memory cell                       | 記憶細胞                |
| mendelvium (Md)                   | 鎔                   |
| mending slip                      | 修補泥漿                |
| mercaptan                         | 硫醇                  |
| mercaptide                        | 硫醇鹽                 |
| mercaptodeoxycellulose            | 硫醇去氧纖維素             |
| mercaptothiazole                  | 硫醇噻唑                |
| mercast process                   | 凍汞法                 |
| merchant iron                     | 熟鐵；商用鐵              |
| Mercro bronze                     | 麥可青銅 { 砲銅型合金 }      |
| mercury (Hg)                      | 汞；水銀                |
| mercury diffusion pump merilising | 汞擴散莫里納法 { 銅之磷酸鹽處理 } |
| mercury penetration method        | 汞滲法                 |
| mercury porosimeter               | 水銀測孔儀               |
| mercury vapor lamp                | 汞蒸氣燈,水銀燈            |
| merrill press                     | 梅瑞爾壓濾機              |
| mesenchymal stem cell             | 間葉幹細胞               |
| mesh                              | 篩目；篩孔               |
| mesh number                       | 篩號                  |
| Mesnager notch                    | 麥斯勒格凹槽              |
| mesoderm                          | 中胚層                 |
| mesomorphic phase                 | 介晶相                 |
| meson                             | 介子                  |
| mesoporous material               | 介孔材料；中孔材料           |
| mesoscope                         | 介觀                  |
| mesoscopic material               | 介觀材料                |
| mesoscopic system                 | 介觀系統；介觀體系           |
| mesotron                          | 介子                  |
| metahalloysite                    | 偏水高嶺土               |

|   |           |
|---|-----------|
| metakaolin                                | 偏高嶺土      |
| metal alloy                               | 金屬合金      |
| metal cased refractory                    | 金屬殼耐火材    |
| metal clad                                | 金屬包層      |
| metal filter                              | 金屬濾器      |
| metal finishing                           | 金屬表面處理    |
| metal flow                                | 金屬流       |
| metal founding                            | 金屬鑄造      |
| metal halide lamp                         | 金屬鹵素燈     |
| metal hydride                             | 金屬氫化物     |
| metal inert gas welding (MIG welding)     | 金屬極鈍氣銲接   |
| metal insert                              | 金屬嵌入物     |
| metal line                                | 玻膏面       |
| metal mold                                | 金屬模       |
| metal pattern                             | 金屬模型      |
| metal penetration                         | 金屬滲透      |
| metal physics                             | 金屬物理學     |
| metal powder                              | 金屬粉末      |
| Metal Powder Industries Federation (MPIF) | 金屬粉末工業協會  |
| metal protection                          | 金屬保護[法]   |
| metal replacement                         | 金屬取代[浸鍍]  |
| metal silicate                            | 金屬矽酸鹽     |
| metal single crystal                      | 金屬單晶      |
| metal spraying                            | 金屬噴覆      |
| metal whisker                             | 金屬鬚晶      |
| metal work                                | 金屬加工；金工   |
| metal-air battery                         | 金屬-空氣電池   |
| metal-cased brick                         | 金屬殼磚      |
| metal-forming process                     | 金屬成型加工    |
| metal-gas binary system                   | 金屬氣體二元系   |
| metal-gas reaction                        | 金屬氣體間反應   |
| metal-impregnating coating                | 金屬浸滲塗層    |
| metal-insulator transition                | 金屬-絕緣體轉變換 |

|                                     |                |
|-------------------------------------|----------------|
| metallic bond                       | 金屬鍵結           |
| metallic bonding                    | 金屬鍵結           |
| metallic cement                     | 金屬水泥           |
| metallic cementation                | 金屬滲入法          |
| metallic coating                    | 金屬塗層           |
| metallic component                  | 金屬組成           |
| metallic compound                   | 金屬化合物          |
| metallic decoration                 | 金屬彩飾           |
| metallic film                       | 金屬膜            |
| metallic glass                      | 金屬玻璃 { 非晶質合金 } |
| metallic grit                       | 金屬砂 ; 金屬粒      |
| metallic hydrogen                   | 金屬態氫           |
| metallic interconnect               | 金屬連接           |
| metallic luster                     | 金屬閃光料          |
| metallic lustre                     | 金屬光澤           |
| metallic material                   | 金屬材料           |
| metallic nanoparticle               | 金屬性奈米顆粒        |
| metallic paint                      | 金屬漆            |
| metallic phase                      | 金屬相            |
| metallic resinate                   | 金屬樹脂酸鹽         |
| metallic solid solution             | 金屬固溶體          |
| metallic-covalent mixed bonding     | 金屬共價混合鍵結       |
| metallic-ionic mixed bonding        | 金屬離子混合鍵結       |
| metalliding                         | 金屬滲鍍 ; 金屬熱浸法   |
| metallization                       | 金屬噴敷           |
| metallizing                         | 金屬化 ; 金屬噴敷法    |
| metallograph                        | 金相照片           |
| metallographic examination          | 金相檢查           |
| metallographic microscope           | 金相顯微鏡          |
| metallographic specimen preparation | 金相試樣準備         |
| metallography                       | 金相學            |

|  |                             |
|--|-----------------------------|
| metalloid  | 擬金屬 ; 亞金屬 ; 類金屬             |
| metalloprotease  | 金屬蛋白酶                       |
| metalloprotein   | 金屬蛋白質                       |
| metalloscope   | 金相顯微鏡                       |
| metallothermic reduction                                     | 金屬熱還原                       |
| metallurgic iron   | 冶煉鐵                         |
| metallurgical coke   | 冶金焦[碳]                      |
| metallurgical macroscope                                     | 金相顯微鏡                       |
| metallurgy   | 冶金學                         |
| metal-matrix composite (MMC)                                 | 金屬基複材                       |
| metalorganic chemical vapor deposition (MOCVD)               | 金屬有機化學氣相沉積                  |
| metaloxide-hydrogen battery                                  | 金屬氧化物-氫電池                   |
| metaloxide-metal hybrid battery                              | 金屬氧化物-金屬混成電池                |
| metal-oxide-semiconductor field emission transistor (MOSFET) | 金氧半導體場效電晶體                  |
| metal-oxide-semiconductor (MOS)                              | 金屬氧化物半導體                    |
| metal-oxide-semiconductor integrated circuit                 | 金氧半導體積體電路                   |
| metal-oxygen fuel cell                                       | 金屬-氧燃料電池                    |
| metal-powder cutting   | 金屬粉切割                       |
| metal-semiconductor field-effect transistor (MESFETs)        | 金屬半導體場效電晶體                  |
| metamaterial   | 形上材料 { 俗稱超穎材料 }             |
| metamorphic rock   | 變質岩                         |
| metastability  | 介穩性 ; 準安定性                  |
| metastabilization  | 介穩化                         |
| metastable equilibrium                                       | 介穩平衡                        |
| metastable phase   | 介穩相                         |
| metastable state   | 介穩狀態                        |
| metatectic   | 固相包晶 ; 包析 { 同 peritectoid } |

|   |                         |
|---|-------------------------|
| metathesis reaction                         | 雙取代反應；雙置換反應             |
| Metcolising                                 | 麥迪可鍍鋁法                  |
| meteoric iron                               | 隕鐵                      |
| meteorite                                   | 隕石                      |
| Metglas                                     | 金屬玻璃 { 非晶質合金 }          |
| methanation                                 | 甲烷化                     |
| methane                                     | 甲烷                      |
| methane conversion                          | 甲烷轉化                    |
| methane decomposition                       | 甲烷分解                    |
| methanol                                    | 甲醇；木精                   |
| methanol absorption                         | 甲醇吸收                    |
| methanol oxidation                          | 甲醇氧化                    |
| methanol reformer                           | 甲醇重組器                   |
| methanol reforming                          | 甲醇重組                    |
| methanol steam reforming                    | 甲醇蒸汽重組                  |
| method of quartering                        | 四分法                     |
| methyl viologen                             | 甲基紫精                    |
| methylene chloride                          | 二氯甲烷                    |
| methylthiazol tetrazolium assay (MTT assay) | 甲基噻唑四氮唑檢定法 { 細胞存活率檢定法 } |
| metric system                               | 公制                      |
| Meyer index                                 | 梅耶指數 { 材料加工硬化指數 }       |
| Mg-Ce alloy                                 | 鎂鈰合金                    |
| Mg-substituted tricalcium phosphate         | 鎂置換三鈣磷酸鹽                |
| mica  | 雲母                      |
| mica flour                                  | 雲母粉                     |
| mica structure                              | 雲母結構                    |
| micelle                                     | 微胞；微膠粒                  |
| micro analyzer                              | 顯微分析儀                   |
| micro biological corrosion                  | 微生物腐蝕                   |
| micro fuel processing system                | 微燃料製程系統                 |
| microalloyed steel                          | 微量合金鋼                   |

|  |             |
|--|-------------|
| microarray                                     | 微陣列         |
| microarray chip                                | 微陣列晶片       |
| microarray spotting system                     | 微陣列點樣系統     |
| microbe  | 微生物         |
| microbial assay                                | 微生物檢定       |
| microbial cell                                 | 微生物細胞       |
| microbial cytoplasm                            | 微生物細胞質      |
| microbiological burden                         | 微生物負荷       |
| microbiology                                   | 微生物學        |
| microbump                                      | 微凸塊         |
| microcavity laser                              | 微[共振]腔雷射    |
| microcircuit                                   | 微電路         |
| microcline                                     | 鉀微斜長石       |
| microconstituent                               | 微成份         |
| microcontact printing                          | 微接觸印刷[術]    |
| microcrack                                     | 微裂          |
| microcracking                                  | 顯微裂痕        |
| micro-creep                                    | 微視潛變        |
| microcrystalline                               | 微晶質         |
| microcrystallinity                             | 微晶性         |
| microelectromechanical system (MEMS)           | 微機電系統       |
| microelectronic                                | 微電子         |
| microelectronic integrated circuit             | 微電子積體電路     |
| microelectronic planar bipolar transistor      | 微電子平面雙極性電晶體 |
| microelectronic planar field-effect transistor | 微電子平面場效電晶體  |
| microemulsion                                  | 微乳化         |
| microencapsulation                             | 微封裝；微包覆     |
| micro-etching                                  | 微浸蝕         |
| microfabrication                               | 微製造         |
| microfiber                                     | 微纖維         |
| microfibril                                    | 微纖維；微原纖維    |
| microfissure                                   | 顯微裂痕        |

|                                   |           |
|-----------------------------------|-----------|
| microfluidics                     | 微流體力學     |
| microform anisotropy              | 微型異向性     |
| microfung                         | 微真菌       |
| microgel                          | 微凝膠       |
| micro-Hall device                 | 微型霍爾元件    |
| micro-hardness                    | [顯]微硬度    |
| microindentation hardness test    | 微壓痕硬度試驗   |
| microindentation test             | 微壓痕試驗     |
| microinjection                    | 微注射       |
| microlite                         | 微晶        |
| micromachine                      | 微機械       |
| micromachining                    | 微[機械]加工   |
| micromanometer                    | 微壓計       |
| micromechanism                    | 微機制；微機理   |
| micromeritics                     | 微粒學       |
| micro-metallurgy                  | 顯微冶金學     |
| micrometry                        | 顯微術       |
| microminiaturization              | 微塵化       |
| micro-molding                     | 微[模]成型    |
| micron                            | 微米        |
| microorganism                     | 微生物       |
| microphotography                  | 顯微照相術     |
| micropillar                       | 微米柱       |
| micro-plastic internal friction   | 微視塑性內耗    |
| microporosity                     | 顯微孔隙；微孔度  |
| microporous monolith              | 微多孔單塊     |
| microradiography                  | 顯微[輻射]透視術 |
| microscale                        | 微尺寸       |
| microscope                        | 顯微鏡       |
| microscopic diffusion coefficient | 微視擴散係數    |
| microscopic electrophoresis       | 顯微電泳      |
| microscopic inspection            | 顯微鏡檢查     |

|   |                   |
|---|-------------------|
| microscopic technique   | 顯微技術              |
| microscopy  | 顯微術；顯微鏡學          |
| microsegregation  | 微量偏析              |
| micro-slip  | 微視滑動              |
| microsphere   | 微球[體]             |
| microsphere foam  | 微球發泡體             |
| microspheroidization  | 微球化               |
| microstructure  | 微[觀]結構；顯微組織       |
| microstructure analysis   | 微結構分析             |
| microsurgery  | 顯微手術              |
| microtacticity  | 微狀排列式             |
| microtechnology   | 微[米]科技；微[米]技術學    |
| microtome   | 薄片切片機 { 顯微鏡用 }    |
| microvoid   | 微孔隙；微孔洞           |
| microwave absorption  | 微波吸收              |
| microwave amplification by stimulated emission of radiation (MASER) | 激發輻射式微波放大器 { 邁射 } |
| microwave heating   | 微波加熱              |
| microwave linear accelerator  | 微波線性加速器           |
| microwave material  | 微波材料              |
| microwave plasma process  | 微波電漿製程            |
| microwave sintering   | 微波燒結              |
| middling  | 中礦；中砂 { 選礦 }      |
| Mie theory  | 米氏理論              |
| migration   | 遷移                |
| migration energy  | 遷移能               |
| mil   | 密耳 { 1/1000 吋 }   |
| mild carburizing  | 緩和滲碳              |
| mild steel  | 軟鋼                |
| mild steel plate  | 軟鋼板               |
| mildew proofing   | 防黴                |
| milk glass  | 乳白玻璃              |
| mill  | 軋機；粉碎機；工廠         |

|                         |             |
|-------------------------|-------------|
| mill addition           | 研磨添加劑       |
| mill hardening          | 軋溫硬化        |
| mill scale              | 軋鋼皮         |
| Miller index            | 米勒指標        |
| Miller index            | 米勒指數        |
| Miller-Bravais indices  | 米-柏指標       |
| milling                 | 研磨；銑        |
| millipede concept       | 千足[接點]概念    |
| mimetic twins           | 擬態雙晶        |
| mine drainage           | 礦山排水        |
| mineral                 | 礦物          |
| mineral acid            | 礦酸          |
| mineral aggregates      | 礦物骨材        |
| mineral dressing        | 選礦          |
| mineral wool            | 礦物綿         |
| mineralization          | 礦化作用        |
| mineralizer             | 礦化劑         |
| miniaturization         | 微型化         |
| miniband                | 微小[能]帶      |
| mining                  | 採礦          |
| minium                  | 鉛丹          |
| minor charge carrier    | 少數電載體       |
| minority carrier        | 少數載子        |
| minority charge carrier | 少數電荷載子      |
| minority current        | 微電流         |
| minus sieve             | 篩下部分；過篩粒    |
| misaligned grains       | 未對準晶粒       |
| misch metal             | 美鈰合金；稀土金屬合金 |
| mischmetall             | 美鈰合金；稀土金屬合金 |
| miscibility             | 互溶性         |
| miscibility gap         | 兩相共存區；互溶區   |
| misfit                  | 參差          |
| misfit angle            | 參差角         |

|                             |                   |
|-----------------------------|-------------------|
| misfit parameter            | 錯合參數              |
| mismatch                    | 失配；錯配；不匹配；偏合      |
| misrun                      | 流不到{鑄造缺陷}         |
| mix                         | 混合料               |
| mixed bonding               | 混合鍵結              |
| mixed conduction            | 混合傳導              |
| mixed control               | 混合控制              |
| mixed dislocation           | 混合差排              |
| mixed electrodes            | 複合電極；混合電極         |
| mixed grain size            | 混合粒度              |
| mixed potential             | 複合[電極]電位；混合[電極]電位 |
| mixed-alkali effect         | 混合鹼效應             |
| mixer                       | 混合機；拌合機；混合器       |
| mixing                      | 混合                |
| mixing plant                | 預拌工廠              |
| mixing time                 | 拌合時間              |
| mixing water                | 混合水               |
| mixture                     | 混合物               |
| MnO <sub>2</sub> battery    | 二氧化錳電池            |
| MnO <sub>2</sub> -Zn system | 二氧化錳-鋅系統          |
| mobile electrolyte system   | 移動式電解質系統          |
| mobility                    | 遷移率；易流度；游移度；易動度   |
| mock gold                   | 賽金                |
| mock platinum               | 賽鉑                |
| mock silver                 | 賽銀                |
| model                       | 模樣                |
| modeling                    | 塑造                |
| modeling clay               | 油土                |
| moderator                   | 緩和劑；減速劑           |
| modification                | 改良處理              |
| modified alloy              | 改良合金              |
| modified austempering       | 改良沃斯回火            |

|                              |            |
|------------------------------|------------|
| modified hemoglobin          | 修飾血紅蛋白     |
| modified marquenching        | 改良麻淬火      |
| modified portland cement     | 改良波德蘭水泥    |
| modifier                     | 改質劑        |
| modularity                   | 模組性        |
| modulation doping            | 調控摻雜       |
| module                       | 模組         |
| module design                | 模組設計       |
| modulus                      | 模數         |
| modulus of direct elasticity | 縱向彈性模數     |
| modulus of elasticity        | 彈性模數       |
| modulus of resilience        | 彈能模數       |
| modulus of rigidity          | 剛性模數       |
| modulus of rupture           | 驟斷模數       |
| modulus of section           | 剖面模數       |
| modulus of shearing          | 剪力模數       |
| modulus of strain hardening  | 應變硬化模數     |
| modulus of volume elasticity | 容積彈性模數     |
| mohair                       | 毛海(安哥拉山羊毛) |
| mohammedan blue              | 回回青        |
| Mohs' hardness               | 莫氏硬度       |
| Mohs' scale                  | 莫氏硬標       |
| Moire fringe                 | 莫氏暈紋       |
| Moire pattern                | 莫氏圖案       |
| moisture                     | 溼氣；水氣      |
| moisture absorption          | 溼氣吸收       |
| moisture content             | 含水量；溼氣含量   |
| moisture control             | 溼氣控制       |
| moisture equilibrium         | 溼氣平衡       |
| moisture expansion           | 水分膨脹       |
| moisture gradient            | 溼氣梯度       |
| moisture regain              | 回潮         |

|                              |             |
|------------------------------|-------------|
| moisture retention capacity  | 保溼能力；持水能力   |
| moisture teller              | 水份測定器       |
| moisture tester              | 水份試驗器       |
| molal cryoscopic constant    | 重量莫耳冰點下降常數  |
| molal ebullioscopic constant | 重量莫耳沸點上升常數  |
| molar attraction constant    | 莫耳吸引力常數     |
| molar benzene viscosity      | 莫耳苯黏度       |
| molar cohesive energy        | 莫耳內聚能       |
| molar heat of vaporization   | 莫耳汽化熱       |
| molar volume                 | 莫耳容積        |
| molasses                     | 糖蜜          |
| mold                         | 模具          |
| mold                         | 模           |
| mold casting                 | 模鑄          |
| mold coating                 | 模塗料         |
| mold hardness                | 砂模硬度        |
| mold inoculation             | 模內接種法       |
| mold insert                  | 模具嵌入物       |
| mold release                 | 脫模          |
| mold seam                    | 模具縫         |
| mold shrinkage               | 模形收縮        |
| mold wall                    | 模壁          |
| molding                      | 模製；模造；造模；壓粉 |
| molding beam                 | 鑄型樑         |
| molding briquet              | 鑄型試塊        |
| molding cube                 | 鑄型立方體       |
| molding cycle                | 模製週期        |
| molding cylinder             | 鑄型圓柱體       |
| molding flask                | 砂箱          |
| molding material             | 造模材料        |
| molding powder               | 模製粉         |
| mold-release agent           | 脫膜劑         |

|                                 |         |
|---------------------------------|---------|
| mold-release sheeting           | 脫模薄板    |
| mole fraction                   | 莫耳分率    |
| molecular beam epitaxy (MBE)    | 分子束磊晶   |
| molecular beam lithography      | 分子束石刻術  |
| molecular biology               | 分子生物學   |
| molecular brake                 | 分子剎車[器] |
| molecular building block        | 分子型積木   |
| molecular cage architecture     | 分子籠建構   |
| molecular cluster               | 分子團簇    |
| molecular coil                  | 分子線圈    |
| molecular conformation          | 分子構形    |
| molecular crystal               | 分子晶體    |
| molecular device                | 分子元件    |
| molecular diffusion membrane    | 分子擴散透膜  |
| molecular distribution function | 分子分佈函數  |
| molecular dynamic simulation    | 分子動力模擬  |
| molecular dynamics              | 分子動力學   |
| molecular electronics           | 分子電子學   |
| molecular ellipticity           | 分子橢圓率   |
| molecular field approximation   | 分子場近似法  |
| molecular field theory          | 分子場理論   |
| molecular flow                  | 分子流     |
| molecular folding               | 分子折疊    |
| molecular geometry              | 分子幾何學   |
| molecular imprint               | 分子壓印    |
| molecular logic                 | 分子邏輯    |
| molecular manufacturing         | 分子製造    |
| molecular moiety                | 分子一部份   |
| molecular monolayer             | 分子型單層   |
| molecular motor                 | 分子馬達    |
| molecular nanoarchitecture      | 分子奈米建構  |

|                                   |               |
|-----------------------------------|---------------|
| molecular optical rotation        | 分子旋光          |
| molecular ordering                | 分子有序化         |
| molecular orientation             | 分子定向          |
| molecular polarity                | 分子極性          |
| molecular probe                   | 分子探針          |
| molecular recognition             | 分子辨識          |
| molecular self-assembly           | 分子自組裝         |
| molecular shuttling               | 分子型接駁         |
| molecular sieve                   | 分子篩           |
| molecular simulation              | 分子模擬          |
| molecular switch                  | 分子開關          |
| molecular symmetry                | 分子對稱          |
| molecular weight                  | 分子量           |
| molecular wire                    | 分子線           |
| molecularly imprinted technology  | 分子壓印技術        |
| molecular-scale manufacturing     | 分子尺寸製造        |
| molecular-weight determination    | 分子量測定         |
| molecular-weight distribution     | 分子量分佈         |
| molecule                          | 分子            |
| Mollerising                       | 摩里法 { 熱浸鍍鋁法 } |
| molten carbonate fuel cell (MCFC) | 熔融碳酸鹽燃料電池     |
| molten metal                      | 熔融金屬          |
| molten-cast refractory            | 熔注耐火材         |
| molybdate orange                  | 鉬橙            |
| molybdenite                       | 鉬鐵礦           |
| molybdenum (Mo)                   | 鉬             |
| molybdenum borohydride            | 硼氫化鉬          |
| molybdenum oxide                  | 氧化鉬           |
| molybdenum steel                  | 鉬鋼            |
| moment colinearity                | 矩共線性          |
| monazite                          | 獨居石；磷酸鈾鐳礦     |



|                                  |                      |
|----------------------------------|----------------------|
| Mond process                     | 孟達法 { 一種鎳精煉法 }       |
| Monel alloy                      | 蒙納合金 { 一種鎳銅合金 }      |
| monimax                          | 鉬鎳邁磁 { 一種高透磁性鐵鎳鉬合金 } |
| monitor                          | 監視器 ; 螢幕             |
| mono-black casting               | 單體鑄件                 |
| mono-bromo-benzene               | 溴苯                   |
| monocarboxyl cellulose           | 單羧纖維素                |
| monocarboxylic acid              | 單羧酸                  |
| monochiral multishell tube       | 單對掌多殼管               |
| monochromatic light              | 單色光                  |
| monochromatic ray                | 單色射線                 |
| monochromator                    | 單色器                  |
| monochrome decoration            | 單色彩                  |
| monochrome method                | 單銘法                  |
| monoclinic crystal structure     | 單斜晶體結構               |
| monoclinic system                | 單斜晶系                 |
| monocrystalline material         | 單晶材料                 |
| monocyanoethylation              | 單氰乙基化作用              |
| monodispersed colloid            | 單分散膠體                |
| monodispersive polystyrene       | 單分散聚苯乙烯              |
| monoelectron conductivity        | 單電子導電率               |
| monoepoxy compound               | 單環氧化合物               |
| monoethanolamine                 | 單乙醇胺                 |
| monohydric alcohol               | 單羥醇 ; 單羥基酒精 ; 一元醇    |
| monolayer                        | 單層                   |
| monolayer packing                | 單層填裝 ; 單層填料          |
| monolithic                       | 整塊的 ; 單相的            |
| monolithic design                | 單體設計                 |
| monolithic lining                | 整體爐襯                 |
| monolithic solid oxide fuel cell | 單體固態氧化物燃料電池          |
| monomer                          | 單體                   |

|                                      |                                |
|--------------------------------------|--------------------------------|
| monomer anisotropy                   | 單體異向性                          |
| monomer isomerization polymerization | 單體異構化聚合反應                      |
| monomer transfer coefficient         | 單體轉移係數                         |
| mononucleotide                       | 單核苷酸                           |
| monopolar electrode                  | 單電極                            |
| monosaccharide                       | 單醣                             |
| monosodium glutamate                 | 麩胺酸鈉                           |
| monotectic                           | 偏晶                             |
| monotectic point                     | 偏晶點                            |
| monotectic reaction                  | 偏晶反應                           |
| mono-type metal                      | 單版鑄字合金                         |
| Montana gold                         | 蒙太拿金 { 含 10%Zn · 0.5%Al 之α黃銅 } |
| Monte Carlo simulation               | 蒙地卡羅模擬                         |
| monticellite                         | 鈣鎂橄欖石                          |
| montmorillonite                      | 蒙脫土 ; 蒙脫石                      |
| Mooij correlation                    | 慕氏關聯                           |
| Mooney viscosity                     | 慕尼黏度                           |
| Moore's law                          | 摩爾定律                           |
| Moote filter                         | 莫爾濾機                           |
| mordant dye                          | 媒染染料                           |
| mordanting                           | 媒染                             |
| mordenite                            | 絲光沸石                           |
| morpholinium fluoroborate            | 氟硼化嗎福啉                         |
| morphology                           | 形態學                            |
| mortar                               | 塼料 ; 水泥砂漿 ; 灰泥 ; 灰漿 ; 塼料研鉢     |
| mortar factor                        | 砂漿因數                           |
| mortar strength                      | 砂漿強度                           |
| mortar-voids test                    | 砂漿空隙試驗                         |
| mosaic                               | 馬賽克 ; 鑲嵌瓷片                     |
| mosaic structure                     | 鑲塊組織 ; 馬賽克結構                   |
| Mössbauer effect                     | 梅斯堡效應                          |
| Mössbauer spectroscopy               | 梅斯堡光譜術                         |

|                                 |                      |
|---------------------------------|----------------------|
| Moss-Burstein shift             | 摩斯-伯斯坦偏移             |
| mothball                        | 殺蟲丸；衛生球              |
| mother alloy                    | 母合金                  |
| motility                        | 動性                   |
| motor horsepower                | 馬達馬力                 |
| motor oil                       | 機油                   |
| Mott model                      | 莫特模型                 |
| mottled cast iron               | 斑鑄鐵                  |
| mottled iron                    | 斑口鐵                  |
| mottled pig iron                | 斑生鐵                  |
| mottling                        | 斑點彩飾                 |
| Mott-Schottky equation          | 莫特-肖特基方程式            |
| Mott-Wannier exciton            | 莫特-萬尼爾激子             |
| mould                           | 模型                   |
| mould brick                     | 模磚                   |
| mould mark                      | 模痕                   |
| moulding                        | 造模；模製                |
| mounting                        | 嵌裝                   |
| mouthpiece                      | 口型                   |
| moving die                      | 動模                   |
| moving-boundary electrophoresis | 移動界面電泳               |
| mox proportion                  | 配合比                  |
| Ms temperature                  | Ms 溫度 { 麻田散鐵變態起始溫度 } |
| mucilage                        | 膠漿                   |
| muck                            | 渣                    |
| muck bar                        | 熟鐵棒                  |
| mud gun                         | 泥槍                   |
| muffin tin approximation        | 鬆餅烤模近似[法]            |
| muffle                          | 隔焰室                  |
| mulch                           | 護蓋層                  |
| mule spinning                   | 走錠紡紗                 |
| muller                          | 混練機                  |
| muller mixer                    | 碾式混合機                |

|  |                 |
|--|-----------------|
| Muller-type mixer                        | 木勒混合器           |
| mullite                                  | 富鋁紅柱石；高鋁紅柱石；莫來石 |
| multi-bucket excavator                   | 聯斗挖土機           |
| multicellular glass                      | 多孔玻璃            |
| multi-chip module (MCM)                  | 多晶片模組           |
| multi-chip packaging (MCP)               | 多晶片封裝           |
| multicomponent high-entropy alloy        | 多元[成分]高熵合金      |
| multicomponent light scattering          | 多色光散射           |
| multidirectional composite material      | 多方向性複合材料        |
| multidirectional laminate                | 多方向性層板          |
| multidomain particle                     | 多域顆粒            |
| multielement high-entropy alloy          | 多元[素]高熵合金       |
| multilayer                               | 多層              |
| multilayer resist technique              | 多層[光]阻劑技術       |
| multilayer spiral structure              | 多層螺旋結構          |
| multilayer stack                         | 多層堆             |
| multi-passage kiln                       | 多隧窯             |
| multiphase nanowire                      | 多相奈米[導]線        |
| multiple cross glide                     | 多重交錯滑動          |
| multiple die                             | 多件模             |
| multiple excitons effect                 | 多重激子效應          |
| multiple expansion cluster source (MECS) | 多重擴張團簇源         |
| multiple fourfold coordination groups    | 四倍配位群           |
| multiple glide                           | 多重滑移            |
| multiple heat treatment                  | 多次熱處理           |
| multiple imaging                         | 多重成像            |
| multiple impression die                  | 多型模             |
| multiple nano contact                    | 多重奈米接點          |
| multiple part die                        | 多件模             |
| multiple ram press                       | 多動體壓機           |

|                                      |                                |
|--------------------------------------|--------------------------------|
| multiple repeat stress               | 多重覆變應力                         |
| multiple scattering                  | 多重散射                           |
| multiple tempering                   | 多次回火                           |
| multiple-cavity die                  | 多穴模                            |
| multiple-hearth furnace              | 多床爐                            |
| multiple-phase electrochemical cell  | 多相電化學電池                        |
| multiple-slide forming               | 多滑塊成形                          |
| multiple-wall paper bag              | 多層紙袋                           |
| multiplicity                         | 多重性                            |
| multiplicity factor                  | 重覆因數；硬化能倍數                     |
| multiply twinned particle (MTP)      | 多重雙晶顆粒                         |
| multiriding                          | 多次滲碳氮化法                        |
| multiscrew compounder                | 多螺桿混料機                         |
| multishell tube                      | 多層殼管                           |
| multiwall nanotube (MWNT)            | 多壁奈米管                          |
| multi-walled carbon nanotube (MWCNT) | 多壁碳奈米管                         |
| multizone system                     | 多區系統                           |
| mumetal                              | $\mu$ 金屬 { 一種高導磁率<br>低磁滯錳基合金 } |
| Muntz metal                          | 孟慈合金 { 六四黃銅 }                  |
| Murex hot-cracking test              | 莫來斯熱裂試驗                        |
| muriatic acid                        | 鹽酸                             |
| muscovite                            | 白雲母                            |
| muscovite mica                       | 白雲母                            |
| music wire                           | 鋼琴線 { 含 0.8-0.95%<br>之鋼 }      |
| myoglobin                            | 肌紅蛋白；肌紅素                       |
| myosin                               | 肌凝蛋白                           |

## N

|                                 |  |
|---------------------------------|--|
| Na/NiCl <sub>2</sub> system     | 鈉/氯化鎳系統 { 車用電池 }   |
| Na/S system                     | 鈉/硫系統 { 車用電池 }   |
| Nabarro-Herring diffusion creep | 納貝-西林擴散潛變  |
| nacreous effect                 | 珠光效應   |
| nacreous luster                 | 珠光色澤   |
| nacreous pigment                | 珠光顏料   |
| nacrite                         | 珍珠陶土   |
| nada                            | 鈉達合金 { 含 3.5-4%Ni 與 3.5-4%Sn · 0.7-1%Pb · 其餘為 Cu 之電阻合金 } |
| nano                            | 奈[米]   |
| nano air vehicle                | 奈米飛行器；奈米空中載具   |
| nano ceramic tile               | 奈米瓷磚   |
| nano chamber pot                | 奈米便壺；奈米夜壺  |
| nano gas squeeze film           | 奈米氣體擠壓膜 { 流體軸承用 }  |
| nano inkjet cloth               | 奈米噴墨布  |
| nano intelligent bomb           | 奈米智慧型炸彈  |
| nano magnetic mineral           | 奈米磁性礦物   |
| nano optical tweezer            | 奈米光鑷子  |
| nano self-assembly              | 奈米自組裝  |
| nano targeting agent            | 奈米標靶劑  |
| nanoactuator                    | 奈米致動器  |
| nanoanalysis                    | 奈米分析   |
| nanoarchitecture                | 奈米建構   |
| nanosarray                      | 奈米陣列   |
| nanopartificial lattice         | 奈米人工晶格   |
| nanobalance                     | 奈米天平   |
| nanobarcode                     | 奈米條碼   |
| nanobiocomposite                | 奈米生物複材   |
| nanobiotechnology               | 奈米生物科技   |
| nanobomb                        | 奈米炸彈   |

|                                     |           |
|-------------------------------------|-----------|
| nanobrush                           | 奈米刷       |
| nanobubble                          | 奈米泡       |
| nanobubble technology               | 奈米泡科技     |
| nanobuzz                            | 奈米迷思      |
| nanocantilever                      | 奈米懸臂      |
| nanocapsule                         | 奈米囊       |
| nanocatalyst                        | 奈米觸媒      |
| nanocement                          | 奈米水泥      |
| nanoceramics                        | 奈米陶瓷      |
| nanocermet                          | 奈米陶金      |
| nanochannel                         | 奈米通道      |
| nanoclay                            | 奈米黏土      |
| nanocluster                         | 奈米團簇      |
| nanocompartment                     | 奈米隔間      |
| nanocomposite                       | 奈米複材      |
| nanocomputer                        | 奈米電腦      |
| nanocone                            | 奈米圓錐      |
| nanocrack                           | 奈米裂縫；奈米裂痕 |
| nanocrystal                         | 奈米晶[體]    |
| nanocrystal array (NCA)             | 奈米晶陣列     |
| nanocrystal superlattice (NCS)      | 奈米晶超晶格    |
| nanocrystalline metal               | 奈米結晶金屬    |
| nanocrystalline probe               | 奈米晶探針     |
| nanocrystallinity                   | 奈米結晶性     |
| nanocrystallization                 | 奈米結晶化     |
| nanodevice                          | 奈米元件      |
| nanodiamond                         | 奈米鑽石      |
| nanodiode                           | 奈米二極體     |
| nanodispersed powder                | 奈米[級]分散粉體 |
| nanodot                             | 奈米點       |
| nanoelectromechanical system (NEMS) | 奈米機電系統    |
| nanoelectronic device               | 奈米電子元件    |
| nanoelectronics                     | 奈米電子學     |

|                                     |                   |
|-------------------------------------|-------------------|
| nanoelectro-optics                  | 奈米電光學             |
| nanoethics                          | 奈米倫理              |
| nanofabrication                     | 奈米製造              |
| nanofiber                           | 奈米纖維              |
| nanofibril                          | 奈米纖維              |
| nanofiller                          | 奈米填料              |
| nanofilm                            | 奈米膜               |
| nanofiltration membrane             | 奈米[過]濾透膜          |
| nanofluidics                        | 奈米流體學             |
| nanogap                             | 奈米間隙              |
| nanoglass                           | 奈米玻璃              |
| nanogold catalyst                   | 奈米金觸媒             |
| nanografiber                        | 奈米石墨纖維            |
| nanograss                           | 奈米草               |
| nanoguitar                          | 奈米吉他              |
| nanoherb                            | 奈米草藥              |
| nanohorn                            | 奈米[錐]角            |
| nanoinprint                         | 奈米壓印              |
| nanoinprint lithography (NIL)       | 奈米壓印石刻術；奈米壓印微影術   |
| nanoinprinting                      | 奈米壓印法             |
| nanoidentation                      | 奈米壓痕              |
| nanoindenter                        | 奈米壓痕器；奈米壓痕儀       |
| nanolayer                           | 奈米層               |
| nanolithographic structure transfer | 奈米石刻結構轉印；奈米微影結構轉印 |
| nanolithography                     | 奈米石刻術；奈米微影術       |
| nanomachine                         | 奈米機械              |
| nanomachining                       | 奈米加工              |
| nanomagnet                          | 奈米磁體              |
| nanomagnet dynamics                 | 奈米磁體動力學           |
| nanomagnetism                       | 奈米磁學              |
| nanomanipulation                    | 奈米操控              |
| nanomanipulator                     | 奈米操控器             |

|                        |          |
|------------------------|----------|
| nanomanufacturing      | 奈米製造     |
| nanomaterial           | 奈米材料     |
| nanomeasurement        | 奈米量測     |
| nanomechanics          | 奈米力學     |
| nanomedicine           | 奈米醫學     |
| nanometal              | 奈米金屬     |
| nanometer              | 奈米       |
| nanometre              | 奈米       |
| nanomissile            | 奈米飛彈     |
| nanonose               | 奈米鼻      |
| nanoparticle           | 奈米顆粒     |
| nanoparticle beam      | 奈米顆粒束    |
| nanopattern            | 奈米圖案     |
| nanophase              | 奈米相      |
| nanopillar             | 奈米柱      |
| nanopollution          | 奈米污染     |
| nanopore               | 奈米孔      |
| nanoporous material    | 奈米[多]孔材料 |
| nanoporous membrane    | 奈米[多]孔透膜 |
| nanopowder             | 奈米粉末     |
| nanoprobng technology  | 奈米探針科技   |
| nanoprofilometry       | 奈米輪廓量測術  |
| nanorailroad           | 奈米鐵軌     |
| nanorod                | 奈米桿；奈米棒  |
| nanosatellite          | 奈米衛星     |
| nanoscale              | 奈米尺度     |
| nanoscience            | 奈米科學     |
| nanoshell              | 奈米殼      |
| nanosilver             | 奈米銀      |
| nanosize               | 奈米尺寸     |
| nanospace              | 奈米空間     |
| nanosphere             | 奈米球      |
| nanosphere lithography | 奈米球石刻術   |
| nanospring             | 奈米彈簧     |

|                                      |                                      |
|--------------------------------------|--------------------------------------|
| nanostamping                         | 奈米沖壓                                 |
| nanostorage technology               | 奈米儲存科技                               |
| nanostucture                         | 奈米結構                                 |
| nanostuctured material               | 奈米結構化材料                              |
| nanoswitch                           | 奈米開關                                 |
| nanosystem                           | 奈米系統                                 |
| nanotechnology                       | 奈米科技；奈米技術                            |
| nanotemplate                         | 奈米模板                                 |
| nanothermometer                      | 奈米溫度計                                |
| nanotool                             | 奈米工具                                 |
| nanotransducer                       | 奈米轉換器                                |
| nanotransistor                       | 奈米電晶體                                |
| nanotrap                             | 奈米阱                                  |
| nanotribology                        | 奈米摩潤學                                |
| nanotube                             | 奈米管                                  |
| nanotweezer                          | 奈米鑷子                                 |
| nanowire                             | 奈米線；奈米導線                             |
| napalm                               | 凝汽油劑                                 |
| naphtha                              | 石腦油；石蠟油；粗石油                          |
| naphthol                             | 萘酚                                   |
| naple yellow                         | 尼泊爾黃                                 |
| napping                              | 起毛                                   |
| narite                               | 鈉瑞合金 { 含 15%Al · 5%Fe · 1%Ni 之硬鋁青銅 } |
| narrow molecular-weight distribution | 窄分子量分佈                               |
| nascent polymer                      | 初生高分子                                |
| native cellulose                     | 原產纖維素                                |
| native copper                        | 自然銅                                  |
| native iron                          | 自然鐵                                  |
| native silver                        | 自然銀                                  |
| Natta catalyst                       | 納塔觸媒                                 |
| Natta's heat engine                  | 納塔熱機                                 |
| natural aging                        | 自然時效；自然時效處理                          |

|  |             |
|--|-------------|
| natural antioxidant                            | 天然抗氧化劑      |
| natural cement                                 | 天然水泥        |
| natural draft                                  | 自然通風        |
| natural glass                                  | 天然玻璃        |
| natural graphite                               | 天然石墨        |
| natural hardness                               | 自然硬度；天然硬度   |
| natural magnet                                 | 天然磁石        |
| natural Portland cement                        | 天然波德蘭水泥     |
| natural radioactive decay                      | 天然放射性衰變     |
| natural seasoning                              | 天然乾燥；天然季化   |
| natural silica sand                            | 天然矽砂        |
| natural uranium                                | 天然鈾         |
| nature print                                   | 自然印痕        |
| naval brass                                    | 海軍黃銅        |
| navy M bronze                                  | 海軍 M 青銅     |
| near edge fine structure                       | 近緣精細結構      |
| near field                                     | 近場          |
| near field scanning microscopy                 | 近場掃描顯微術     |
| near net shape                                 | 近淨形         |
| nearest neighbor distance                      | 最近鄰距離       |
| near-field probe                               | 近場探針        |
| near-field scanning optical microscopy (NSOM)  | 近場掃描光學顯微術   |
| near-field surface-enhanced Raman spectroscopy | 近場表面增強拉曼光譜術 |
| near-neighbor atom                             | 近鄰原子        |
| neck   | 槽頸          |
| neck formation                                 | 頸口成形        |
| necking  | 縮頸；頸縮       |
| necklace structure                             | 項鍊結構        |
| needle   | 膏球針         |
| needle powder                                  | 針狀粉末        |
| needle structure                               | 針狀組織        |
| Néel line                                      | 倪耳線         |

|  |                       |
|--|-----------------------|
| Néel temperature                       | 尼爾溫度                  |
| Néel-Taniguchi theory                  | 倪耳-谷口理論               |
| negative differential resistance (NDR) | 負微分電阻                 |
| negative hardening                     | 反效淬火                  |
| negative impedance                     | 負阻抗                   |
| nematic                                | 向列型 { 液晶相之一 }         |
| neodymium (Nd)                         | 釹                     |
| neodymium-iron-boron magnet            | 釹鐵硼磁石                 |
| neon (Ne)                              | 氖                     |
| neoprene                               | 氯丁橡膠；氯丁二烯橡膠；新平橡膠      |
| nepheline                              | 霞石                    |
| nepheline syenite                      | 霞長石                   |
| neptunium (Np)                         | 鏷                     |
| Nernst boundary layer                  | 能斯特境界層                |
| Nernst diffusion layer                 | 能斯特擴散層                |
| Nernst distribution law                | 能斯特分配律 { 金屬液一熔渣 }     |
| Nernst effect                          | 能斯特效應 { 熱電 }          |
| Nernst equation                        | 能斯特方程式                |
| Nernst potential                       | 能斯特電位                 |
| Nesbitts process                       | 尼斯貝法 { 在旋窯中鐵礦石直接還原法 } |
| nesting                                | 湊配                    |
| network cementite                      | 網狀雪明碳體；網狀雪明碳鐵         |
| network solid                          | 網狀固體                  |
| network structure                      | 網狀結構；網狀組織             |
| network-forming ion                    | 網狀形成離子                |
| network-modifying ion                  | 網狀改成離子                |
| Neumann band                           | 紐曼帶                   |
| Neumann lamellae                       | 紐曼層狀線                 |
| Neumann line                           | 紐曼線                   |
| neutral atmosphere                     | 中性蒙氣；中性氣氛             |
| neutral axis                           | 中立軸                   |
| neutral brick                          | 中性磚                   |

|                                      |   |
|--------------------------------------|---|
| neutral flux                         | 中心助熔劑   |
| neutral glass                        | 中性玻璃  |
| neutral refractory                   | 中性耐火材   |
| neutral salt                         | 中性鹽   |
| neutral slag                         | 中性渣   |
| neutral zone                         | 中性區域  |
| neutralization equivalent            | 中和當量  |
| neutralizer                          | 中和劑   |
| neutral-tinted glass                 | 中性有色玻璃  |
| neutretto                            | 中[性]介子  |
| neutrino                             | 微[中]子   |
| neutron                              | 中子  |
| neutron activation analysis          | 中子活化分析  |
| neutron cross-section                | 中子橫截面   |
| neutron diffraction                  | 中子繞射  |
| neutron flux                         | 中子通量  |
| neutron radiography                  | 中子透視圖   |
| neutron scattering                   | 中子散射  |
| neutron sputtering mass spectrometer | 中子濺射質譜儀   |
| neutron-absorbing glass              | 中子吸收玻璃  |
| newlog                               | 紐羅合金 { 含 35%Ni · 1%Sn · 具良好抗蝕力之銅鎳合金 }   |
| Newtonian behavior                   | 牛頓行爲  |
| Newtonian flow                       | 牛頓流動  |
| Newtonian fluid                      | 牛頓流體  |
| Newtonian viscosity                  | 牛頓黏度  |
| Newton's law                         | 牛頓定律  |
| Newton's metal                       | 牛頓[易熔]合金 { 18.8%Sn-50%Bi-31.2%Ni · M.P.96-97 °C · 或 51.7%Bi-40.2%Ni-8.1%Cd · M.P.92°C } |
| Niag                                 | 鎳亞格合金 { 含 9%Ni · 3%Pb · 40%Zn 之銅基合金 }   |
| Ni-Al bronze                         | 鎳鋁青銅  |

|                           |  |
|---------------------------|--|
| nibbed saggar             | 內突匣鉢                                   |
| nibbler                   | 嚙切機                                    |
| nibbling                  | 嚙切                                     |
| Nicarb process            | 氣體滲碳氮化法                                |
| Ni-Carbing                | 氣體滲碳氮化法                                |
| Nicaro process            | 尼卡洛法                                   |
| nichrome                  | 鎳克銘 { 一種電熱用合金 }                        |
| nick-bend test            | 凹痕彎斷試驗                                 |
| nickel (Ni)               | 鎳                                      |
| nickel bronze             | 鎳青銅                                    |
| nickel cast iron          | 鎳鑄鐵                                    |
| nickel chelate            | 鎳螯合物                                   |
| nickel chrome steel       | 鎳鉻鋼                                    |
| nickel dipping            | 鎳鹽浸                                    |
| nickel electrode          | 鎳電極                                    |
| nickel ferrite            | 鎳鐵氧磁石                                  |
| nickel oxide-iron battery | 氧化鎳-鐵電池                                |
| nickel pellet             | 鎳珠                                     |
| nickel print              | 鎳印法                                    |
| nickel silver             | 鎳銀；白銅；德銀 { $\alpha$ 相之銅鎳鋅合金 }          |
| nickel steel              | 鎳鋼                                     |
| nickel/YSZ cermet         | 鎳/鈦安定化氧化鋁陶瓷                            |
| nickel-cadmium cell       | 鎳鎘電池                                   |
| nickel-clad               | 包鎳 { 鋼板 }                              |
| nickel-iron alloy         | 鎳鐵合金                                   |
| nickel-iron cell          | 鎳鐵電池                                   |
| nickelizing               | 鍍鎳處理                                   |
| nickeloid                 | 鎳克勞合金 { 製藥儀器防鏽材料含 55-60%Cu 餘為 Ni 之合金 } |
| nickel-plating            | 鍍鎳                                     |
| nicking                   | 刻痕                                     |
| niclad                    | 包鎳 { 鋼板 }                              |
| Nicol prism               | 尼可稜鏡                                   |

|  |                                       |
|--|---------------------------------------|
| Ni-hard                                | 鎳硬合金                                  |
| nil-ductility temperature (NDT)        | 零延性溫度                                 |
| Nilo alloys                            | 零羅合金 { 30-50%Ni · 其餘為鎂 }              |
| Nimonic alloy                          | 鎳蒙克合金 { 一系族抗高溫氧化和潛變的鎳基超合金 · 多用於燃氣輪機 } |
| niobite                                | 銀鐵礦                                   |
| niobium (Nb)                           | 鈮                                     |
| niobium alloy                          | 鈮合金                                   |
| Ni-resist                              | 鎳耐蝕合金                                 |
| nital                                  | 硝太蝕劑 { 含硝酸之酒精蝕液 }                     |
| Nitinol                                | 鎳鈦形狀記憶合金 { 商標名 }                      |
| nitralising                            | 硝酸鈉鹽浴處理                               |
| nitrate                                | 硝酸鹽                                   |
| nitrate pyrolysis                      | 硝酸鹽熱解                                 |
| nitration                              | 硝化                                    |
| nitride                                | 氮化物                                   |
| nitriding                              | 氮化                                    |
| nitriding steel                        | 氮化鋼                                   |
| nitriding structure                    | 氮化組織 { 鋼 }                            |
| nitrile                                | 腈                                     |
| nitrite                                | 亞硝酸鹽                                  |
| nitro dye                              | 硝基染料                                  |
| nitro polymer                          | 硝基聚合物                                 |
| nitrocarburizing                       | 滲碳氮化法                                 |
| nitrodeoxycellulose                    | 硝基去氧纖維素                               |
| nitrogen                               | 氮氣                                    |
| nitrogen (N)                           | 氮                                     |
| nitrogen base                          | 氮鹼                                    |
| nitrogen fluoride                      | 氮氟化物                                  |
| nitrogen hardening                     | 氮硬化法                                  |
| nitrogen oxide                         | 氮氧化物                                  |
| nitrogenous compounds-oxygen fuel cell | 含氮化合物-氧燃料電池                           |



|                                  |                          |
|----------------------------------|--------------------------|
| nitroolefin                      | 硝基烯                      |
| nitroso compound                 | 亞硝基化合物                   |
| nobelium (No)                    | 鎓                        |
| noble metal                      | 貴金屬                      |
| noble metal catalyst             | 貴金屬觸媒                    |
| noble metal catalyst recycling   | 貴金屬催化劑回收                 |
| noble metal loading              | 貴金屬添加量                   |
| noble potential                  | 貴電位                      |
| Node                             | 節點                       |
| nodulant                         | 球化劑                      |
| nodular cast iron                | 球[狀石]墨鑄鐵                 |
| nodular graphite cast iron       | 球狀石墨鑄鐵                   |
| nodular graphite pig iron        | 球墨鑄鐵用生鐵                  |
| nodular powder                   | 球狀粉末                     |
| nodular troostite                | 結節狀吐粒散體                  |
| nodular-fireclay                 | 節狀火黏土                    |
| nodularizer                      | 球化劑 { 鑄造 }               |
| nodules                          | 生料粒                      |
| nodulizer                        | 製粒機                      |
| nodulizing                       | 粒結法                      |
| Noil                             | 羅依合金 { 含 20%Sn 之 Cu 合金 } |
| nomenclature                     | 命名法                      |
| nominal dimension                | 標稱尺度                     |
| nominal stress                   | 標稱應力                     |
| nomogram                         | 列線圖 ; 圖解圖                |
| nomograph                        | 列線圖 ; 圖解圖                |
| non-clay refractory              | 非黏土耐火材料                  |
| non-coking coal                  | 非焦性煤                     |
| nonconjugated diene              | 非共軛二烯                    |
| non-conservative motion          | 非守恆運動                    |
| non-consumable electrode melting | 非消耗電極熔解法                 |
| noncrystalline solid             | 非結晶固體                    |

|                               |                       |
|-------------------------------|-----------------------|
| non-deforming steel           | 不變形鋼                  |
| nondestructive evaluation     | 非破壞性評估                |
| nondestructive testing        | 非破壞性測試 ; 非破壞性檢測       |
| non-destructive testing       | 非破壞試驗                 |
| nonductile fracture           | 非延性斷口                 |
| nonelectrolyte                | 非電解質                  |
| nonequilibrium cooling        | 非平衡冷卻                 |
| nonequilibrium phase          | 非平衡相                  |
| nonequilibrium solidification | 非平衡凝固                 |
| non-ferrous alloy             | 非鐵合金                  |
| non-ferrous casting           | 非鐵鑄件                  |
| non-ferrous metal             | 非鐵金屬                  |
| non-Hookeian                  | 非虎克性 { 應力與應變非線性關係情況 } |
| non-isomorphic alloy system   | 非同質異晶合金系統             |
| non-isothermal process        | 非等溫過程                 |
| nonlinear optical property    | 非線性光學性質               |
| nonlinear optics (NLO)        | 非線性光學                 |
| non-load bearing tile         | 非載重磚 ; 非載重瓦           |
| nonlocality                   | 非侷域性                  |
| non-magnetic cast iron        | 非磁性鑄鐵                 |
| non-magnetic steel            | 非磁性鋼                  |
| nonmetal                      | 非金屬                   |
| nonmetallic inclusion         | 非金屬夾雜物                |
| non-oxidizing acid            | 非氧化性酸                 |
| non-polar material            | 非極性材料                 |
| non-propagating crack         | 不延伸裂痕                 |
| non-shrinking steel           | 不縮鋼                   |
| nonsteady-state condition     | 非穩定態條件                |
| nonsteady-state diffusion     | 非穩定態擴散                |
| non-stoichiometric            | 非化學計量的                |
| nonstoichiometric compound    | 非化合比化合物               |

|                                       |                                 |
|---------------------------------------|---------------------------------|
| non-stoichiometric compounds          | 非等計量比化合物                        |
| non-uniform hardening                 | 非均勻硬化                           |
| non-vitreous                          | 非玻化；結晶化                         |
| non-vitrified                         | 非玻化；結晶化                         |
| non-volatile matter                   | 非揮發性物質                          |
| nonwarp glue                          | 不翹膠                             |
| normal alloy                          | 正常合金                            |
| normal brick                          | 普通磚                             |
| normal consistency                    | 標準稠度                            |
| normal hydrogen scale (NHS)           | 氫電極基準電位標度                       |
| normal segregation                    | 正常偏析                            |
| normal spinel                         | 正尖晶石                            |
| normal steel                          | 正常鋼                             |
| normal stress                         | 正向應力                            |
| normal structure                      | 正常組織                            |
| normal temperature and pressure (NTP) | 常溫常壓；正常溫度及壓力 { 25°C · 760mmHg } |
| normalize                             | 正常化                             |
| normalizing process                   | 正常化處理                           |
| nose-ring block                       | 灰圈磚                             |
| notch                                 | 凹口；凹痕缺口                         |
| notch bar                             | 缺口試桿                            |
| notch constriction ration             | 凹口收縮比                           |
| notch ductile steel                   | 耐擊延性鋼                           |
| notch effect                          | 凹痕效應；缺口效應                       |
| notch factor                          | 凹痕因數；缺口因數                       |
| notch rupture ductility               | 凹口破壞延性                          |
| notch sensitivity                     | 凹痕感應；缺口感度                       |
| notch sharpness                       | 凹口銳度                            |
| notch strength ratio                  | 凹口強度比                           |
| notch tensile testing                 | 凹口抗拉試驗                          |
| notch test                            | 缺口試驗                            |
| notch toughness                       | 凹口韌性；缺口韌性                       |

|                              |                    |
|------------------------------|--------------------|
| notched specimen             | 缺口試片               |
| notching                     | 切口                 |
| nozzle                       | 噴嘴                 |
| n-p-n junction transistor    | n-p-n 接點電晶體        |
| n-process                    | 西山造模法 { 一種自硬性造模法 } |
| n-type semiconducting        | n 型半導體             |
| n-type semiconducting oxide  | n 型半導體氧化物          |
| nuclear coupling             | 核偶合                |
| nuclear cross section        | 核截面                |
| nuclear emulsion             | 核乳膠                |
| nuclear energy               | 核能                 |
| nuclear fission              | 核分裂                |
| nuclear fuel                 | 核燃料                |
| nuclear fusion               | 核融合；核聚變            |
| nuclear magnetic resonance   | 核磁共振               |
| nuclear physics              | 核子物理               |
| nuclear proton               | 核質子                |
| nuclear reaction             | 核子反應               |
| nuclear reactor ceramic      | 核反應器陶瓷             |
| nucleating agent             | 成核劑                |
| nucleation                   | 成核；孕核              |
| nucleation and growth        | 孕核與成長；成核與成長        |
| nucleation controlled growth | 成核控制成長             |
| nucleation frequency         | 成核頻度；孕核頻度          |
| nucleation period            | 孕核期；成核期            |
| nucleation rate              | 成核速率               |
| nuclei                       | 核種                 |
| nucleic acid                 | 核酸                 |
| nucleon                      | 核粒子；核基子            |
| nucleonics                   | 核子學                |
| nucleophilic reaction        | 親核反應               |
| nucleoprotein                | 核蛋白                |

材料科學名詞 (第三版)

|                                 |           |
|---------------------------------|-----------|
| nucleoside                      | 核苷        |
| nucleotide                      | 核苷酸       |
| nucleus                         | 核；核心；原子核  |
| nucleus growth                  | 晶核成長      |
| nuclide                         | 原子核類      |
| nugget                          | 天然塊金      |
| number average chain length     | 數目平均鏈長    |
| number average molecular weight | 數目平均分子量   |
| numerical aperature             | 數值孔徑；數值光圈 |
| numerical aperture (NA)         | 數值孔徑；數值光圈 |
| Nusselt number                  | 那塞特熱傳係數   |
| NX-188                          | 鎳超合金      |
| nylon                           | 尼龍；耐隆     |
| Nyquist plot                    | 奈奎斯特圖     |

## O

|                              |                   |
|------------------------------|-------------------|
| oak                          | 橡木                |
| obsidian                     | 黑曜石               |
| obsidian glasses             | 黑曜岩玻璃             |
| occlusion                    | 吸附                |
| ochre                        | 赭石                |
| octahedral interstices       | 八面體格隙             |
| octahedral interstitial site | 八面體填隙位置           |
| octahedral plane             | 八面體晶面             |
| octahedral site              | 八面體位置             |
| octahedron                   | 八面體               |
| octopus graphite             | 章魚狀石墨             |
| ocular                       | 目鏡                |
| oersted                      | 厄司特 { 磁性單位 }      |
| off-hand blowing             | 吹製法               |
| off-hand ware                | 吹製玻璃器             |
| offset method                | 橫距法               |
| offset upset                 | 偏位鍛粗件             |
| offset upset forging         | 偏位鍛粗鍛件            |
| offset upsetting             | 偏位鍛粗              |
| offset yield strength        | 偏位降伏強度            |
| off-stoichiometry            | 偏化學計量             |
| OFHC copper                  | OFHC 銅 { 無氧高導性銅 } |
| ohmic loss                   | 電阻損失              |
| ohmic resistance             | 歐姆電阻              |
| oil                          | 油                 |
| oil bath                     | 油浴                |
| oil binder                   | 油質黏結劑             |
| oil cooling                  | 油冷                |
| oil fired boiler             | 燃油鍋爐              |
| oil hardening                | 淬油硬化；油淬火          |
| oil hardening steel          | 油硬鋼               |
| oil immersion                | 浸油                |

|                               |                              |
|-------------------------------|------------------------------|
| oil immersion lens            | 浸油鏡頭                         |
| oil line filter               | 石油管線過濾器                      |
| oil loam                      | 油灰                           |
| oil quenching                 | 油淬火                          |
| oil repellent                 | 拒油劑                          |
| oil sand                      | 油砂                           |
| oil spot                      | 油斑                           |
| oil stone                     | 油[磨]石                        |
| oil tempering                 | 油回火                          |
| oil vapor diffusion pump      | 油氣擴散泵                        |
| oil, hydrogen production      | 油, 氫產出                       |
| oil-chalk test                | 油粉[探傷]試驗                     |
| oilite bush                   | 含油襯套                         |
| oil-resisitant polymer        | 抗油聚合物                        |
| oil-well cement               | 油井水泥                         |
| oleate                        | 油酸鹽                          |
| olefin                        | 烯類                           |
| oleoresin                     | 油性樹脂                         |
| oleum                         | 發煙硫酸                         |
| oligo                         | 寡；稀少                         |
| oligoclase                    | 鈉鈣長石                         |
| oligomer                      | 寡聚物                          |
| oliver filter                 | 奧里佛濾機                        |
| olivine                       | 橄欖石                          |
| olivine mineral               | 橄欖石礦物                        |
| olivine sand                  | 橄欖石砂                         |
| Olsern test                   | 歐森[凹壓]試驗 { 同 Erichsen test } |
| Olympic bronze                | 奧林匹克青銅 { 一種矽青銅 }             |
| Omega steel                   | 亞米加鋼 { 一種高矽鋼 }               |
| once-fired ware               | 一次燒成器                        |
| once-glaze ware               | 單釉器                          |
| one-dimensional nanostructure | 一維奈米結構                       |

|                                |               |
|--------------------------------|---------------|
| one-slag process               | 單渣法           |
| one-stroke operation           | 單程操作          |
| on-glaze decoration            | 釉上彩           |
| oozing                         | 滲泌            |
| opacification                  | 不透明化          |
| opacifier                      | 乳白劑           |
| opacity                        | 乳白度；不透明性      |
| opal                           | 蛋白石           |
| opal glass                     | 乳白玻璃          |
| opalescence                    | 乳白光；乳光        |
| opalwax                        | 乳白蠟           |
| opaque ceramic glazed tile     | 不透明瓷釉面磚       |
| opaque glass                   | 不透明玻璃         |
| opaque glaze                   | 不透明釉          |
| open cavity                    | 外縮孔           |
| open circuit                   | 斷路開路          |
| open circuit potential         | 斷路電位          |
| open circuit voltage           | 開路電壓          |
| open coil annealing            | 鬆捲退火          |
| open firing                    | 敞燒            |
| open flame furnace             | 露焰爐           |
| open hearth furnace            | 平爐            |
| open hearth process            | 平爐法           |
| open hearth steel              | 平爐鋼           |
| open pore                      | 開放孔           |
| open $\gamma$ -field           | 開放 $\gamma$ 區 |
| open-die forging               | 開模鍛造；開模鍛件     |
| open-grain structure           | 粗鬆組織          |
| open-hearth furnace cast steel | 平爐鑄鋼          |
| open-top blast furnace         | 露頂型高爐         |
| operating temperature          | 操作溫度          |
| operating time                 | 操作時間          |
| operational voltage            | 操作電壓          |

|                                    |              |
|------------------------------------|--------------|
| optic fiber                        | 光纖           |
| optical activity                   | 光學活性         |
| optical crown glass                | 光學冕玻璃        |
| optical enissivity                 | 光線發射性        |
| optical fiber                      | 光纖           |
| optical flint glass                | 光學石英玻璃；光學鉛玻璃 |
| optical glass                      | 光學玻璃         |
| optical guide                      | 光導           |
| optical microscope                 | 光學顯微鏡        |
| optical microscopy                 | 光學顯微學        |
| optical pattern transfer           | 光學圖案轉印       |
| optical probe                      | 光學探針         |
| optical property                   | 光學性質         |
| optical proximity correction (OPC) | 光學鄰近修正       |
| optical proximity effect           | 光學鄰近效應       |
| optical pump probe spectroscopy    | 光泵探針光譜術      |
| optical pyrometer                  | 光學高溫計；光測高溫計  |
| optical retardation                | 光阻滯          |
| optical rotation                   | 旋光           |
| optical switch                     | 光學開關         |
| optical system                     | 光學系統         |
| optical trap                       | 光捕捉；光鉗       |
| optical tweezers                   | 光鉗           |
| optical waveguide                  | 光波導          |
| optical-fiber communication        | 光纖通信         |
| optimal start                      | 最適啟動         |
| optoelectronics                    | 光電子學         |
| orange peel                        | 橘皮狀          |
| orange peel surface                | 橘皮狀面         |
| orbital quantum number             | 軌域量子數        |
| order hardening                    | 規律硬化         |
| order of X-ray reflection          | X 光反射順序      |

|                                     |                 |
|-------------------------------------|-----------------|
| order parameter                     | 有序參數            |
| order-disorder transformation       | 規律無規律轉變；規律無規律變態 |
| ordered alloy                       | 規律合金            |
| ordered phase                       | 規律相             |
| ordered self-assembly               | 序化自組裝           |
| ordered solid solution              | 規律固溶體           |
| ordered structure                   | 序化結構            |
| ordering                            | 次序；有序；規則；規律化    |
| ordering temperature                | 序化溫度            |
| ore                                 | 礦石              |
| ore-dressing                        | 選礦              |
| orford process                      | 奧佛法 { 一種分層煉銅法 } |
| organic bond                        | 有機黏合劑           |
| organic borate                      | 有機硼酸鹽           |
| organic coating                     | 有機塗層；有機護膜       |
| organic compounds fuel cell         | 有機化合物燃料電池       |
| organic light emission diode (OLED) | 有機發光二極體         |
| organic light emission display      | 有機發光顯示器         |
| organic semiconductor               | 有機半導體           |
| organic thin-film transistor (OTFT) | 有機薄膜電晶體         |
| organosol                           | 有機溶膠            |
| organothiolate                      | 有機硫醇鹽           |
| orientation                         | 方位              |
| orientation                         | 取向；指向；方向        |
| oriented crystalline polymer        | 定向結晶型聚合物        |
| oriented film                       | 定向膜             |
| oriented nucleation                 | 順向成核；順向孕核       |
| orifice ring                        | 孔口環             |
| o-ring                              | O 形環            |
| ornamental brick                    | 篩磚              |
| Orowan bypassing mechanism          | 歐羅萬繞道機制         |

|                                  |  |
|----------------------------------|--|
| Orowan equation                  | 歐羅萬方程式                                 |
| ortho                            | 正；正交                                   |
| ortho-cementite                  | 正態雪明碳鐵                                 |
| orthoclase                       | 正長石                                    |
| orthogonality                    | 正交性；直交性                                |
| orthorhombic system              | 斜方晶系                                   |
| orthosilicate                    | 正矽酸鹽                                   |
| Orton cone                       | 奧吞[測溫]錐                                |
| oscillating screen               | 振動篩                                    |
| osmiridium                       | 鐵銱合金 { 25-40%Os · 50-60%Ir · 0-10%Pb } |
| osmium (Os)                      | 鐵                                      |
| osmometer                        | 滲透壓計                                   |
| osmometry                        | 滲透壓測定法                                 |
| osmosis                          | 滲透                                     |
| osmotic coefficient              | 滲透係數                                   |
| osmotic drag                     | 滲透拉力                                   |
| osmotic pressure                 | 滲透壓                                    |
| osteogenesis                     | 成骨[作用]；骨化[作用]                          |
| Ostwald ripening                 | 奧斯華粗化；奧斯華熟化                            |
| Ostwald viscometer               | 奧士華黏度計                                 |
| Ostwald's solubility coefficient | 奧斯華溶解度係數                               |
| outgassing                       | 放氣；逸氣                                  |
| output                           | 輸出；產量                                  |
| ovalbumin                        | 卵蛋白素                                   |
| oven-dry condition               | 烘乾狀態                                   |
| over aging                       | 過度時效                                   |
| over burning                     | 過度燃燒                                   |
| over carburizing                 | 過度滲碳                                   |
| over heating                     | 過熱                                     |
| over loading                     | 過度負荷                                   |
| over voltage                     | 過電壓                                    |
| overall cell reaction            | 總電池反應                                  |

|                               |          |
|-------------------------------|----------|
| overburden                    | 表土       |
| overcure                      | 過硬化      |
| overfiring                    | 過度燒製     |
| overglaze decoration          | 釉上彩      |
| over-glazed                   | 過度施釉     |
| overgrinding                  | 過度研磨     |
| overhead cableway             | 架空纜道     |
| overhead conveyer furnace     | 高吊輸送爐    |
| overheated steel              | 過熱鋼      |
| overheated structure          | 過熱組織     |
| overheated welding            | 仰熔接      |
| overlay                       | 覆蓋       |
| overnight test                | 快速[疲勞]試驗 |
| over-pickling                 | 過度浸漬     |
| overpotential                 | 過電位      |
| overpress                     | 超壓       |
| overprint coating             | 套印塗膜     |
| oversize powder               | 過大粉末     |
| overspray                     | 噴餘；面積    |
| overstraining                 | 速度應變法    |
| overstressing                 | 過度應力法    |
| overvoltage                   | 過電壓      |
| Owen's machine                | 歐文機      |
| oxalate                       | 草酸鹽      |
| oxidant                       | 氧化劑      |
| oxidation                     | 氧化       |
| oxidation agent               | 氧化劑      |
| oxidation plating             | 氧化電鍍     |
| oxidation reaction            | 氧化反應     |
| oxidation resistance          | 耐氧化性     |
| oxidation-reduction potential | 氧化還原電位   |
| oxidative titration curve     | 氧化滴定曲線   |
| oxide                         | 氧化物      |

|   |              |
|---|--------------|
| oxide ceramics                          | 氧化物陶瓷        |
| oxide film                              | 氧化膜          |
| oxide film treatment                    | 氧化膜處理        |
| oxide inclusion                         | 氧化物夾質        |
| oxide print                             | 氧化物印畫法       |
| oxide scale                             | 氧化皮          |
| oxidized cellulose                      | 氧化纖維素        |
| oxidizer                                | 氧化劑          |
| oxidizing agent                         | 氧化劑          |
| oxidizing flame                         | 氧化焰          |
| oxidizing power                         | 氧化能力         |
| oxidizing reaction                      | 氧化反應         |
| oxidizing roasting                      | 氧化焙燒         |
| oxidizing slag                          | 氧化[性爐]渣      |
| oxidoreductase                          | 氧化還原酶        |
| oxonium ion                             | 正氧離子         |
| oxy-acetylene                           | 氧乙炔          |
| oxy-acetylene cutting                   | 氧乙炔截割        |
| oxy-acetylene flame                     | 氧乙炔焰         |
| oxyaustenite                            | 含氧沃斯田體       |
| oxycellulose                            | 氧化纖維素        |
| oxyferrite                              | 含氧肥粒鐵        |
| oxygen blown steelmaking process        | 吹氧煉鋼法        |
| oxygen cathode                          | 氧陰極          |
| oxygen index                            | 氧指數          |
| oxygen lance                            | 吹氧管          |
| oxygen lime power process (OLP process) | 氧石灰煉鋼法；OLP 法 |
| oxygen potential                        | 氧勢           |
| oxygen reduction                        | 氧還原反應        |
| oxygen reduction                        | 氧還原          |
| oxygen steelmaking pig iron             | 吹氧煉鋼用生鐵      |
| oxygen steel-making process             | 氧氣煉鋼法        |

|                           |        |
|---------------------------|--------|
| oxygenated diluent        | 氧化稀釋劑  |
| oxygen-concentration cell | 氧濃度電池  |
| oxygen-free copper        | 無氧銅    |
| oxygen-ion vacancy        | 氧離子空缺  |
| oxygen-lance cutting      | 氧氣槍切割  |
| oxyhemoglobin             | 氧基紅血球素 |
| oxy-hydrogen gas          | 氫氧氣體   |
| oxy-propane gas           | 氧丙烷氣體  |
| ozone                     | 臭氧     |
| ozonization               | 臭氧化反應  |



# P

|                          |                     |
|--------------------------|---------------------|
| pack annealing           | 裝匣退火                |
| pack carburizing         | 裝匣滲碳法               |
| pack hardening           | 裝匣硬化                |
| pack heat treatment      | 裝匣熱處理               |
| package in package (PiP) | 內[構]裝               |
| package on package (PoP) | 疊[構]裝               |
| packing density          | 填集密度                |
| packing effect           | 聚束效應 { 原子 }         |
| pad                      | 襯墊                  |
| padding                  | 填充                  |
| paint                    | 油漆                  |
| paint additive           | 油漆添加劑               |
| pair distribution        | 偶分布                 |
| pair ordering            | 偶序化                 |
| pair potential           | 偶位能                 |
| pale glass               | 灰綠玻璃                |
| palladium (Pd)           | 鈹                   |
| pallet                   | 托板                  |
| pan mill                 | 盤磨                  |
| pancake forging          | 扁圓鍛造 ; 扁圓鍛件 +C10430 |
| pancaking                | 壓扁                  |
| pancreatin               | 胰酶                  |
| panel                    | 儀錶板 ; 嵌板 ; 節間結構板    |
| panel brick              | 擋磚                  |
| panel spalling test      | 屏列剝落試驗              |
| papain                   | 木瓜酶                 |
| paper                    | 紙                   |
| paper chromatography     | 紙色層分析               |
| paper electrophoresis    | 紙電泳法                |
| paperboard               | 紙板                  |
| parabolic rate law       | 拋物線速率定律             |

|                             |                       |
|-----------------------------|-----------------------|
| para-cementite              | 異態雪明碳鐵                |
| paracrystal                 | 伸晶                    |
| paraelectric                | 順電性                   |
| paraffin                    | 石蠟                    |
| paraffin base oil           | 石蠟基原油                 |
| paraffin emulsion           | 石蠟乳狀液                 |
| paraffin test               | 石蠟試驗 { 一種非破壞性探傷法 }    |
| paraffin wax                | 石蠟                    |
| parahelium                  | 仲氦                    |
| parahydrogen                | 仲氫                    |
| parallel stripe domain      | 平行條紋[磁]域              |
| paramagnetic resonance (PR) | 順磁共振                  |
| paramagnetic substance      | 順磁體                   |
| paramagnetism               | 順磁性                   |
| parasitic loss              | 寄生損耗                  |
| parenchyma                  | 薄壁組織                  |
| parent metal                | 基體金屬                  |
| parian                      | 巴黎安瓷                  |
| Paris equation              | 巴黎氏方程式                |
| paris white                 | 巴黎白                   |
| parison                     | 型坯                    |
| parity                      | 宇稱性 ; 對等性             |
| parkerised steel            | [磷酸鹽]防鏽鋼              |
| parkerising                 | 磷酸鹽護膜法                |
| PARKE's process             | 派克法 { 一種由鉛中收回貴金屬之辦法 } |
| part load characteristics   | 局部負載特性                |
| part load heat rate         | 局部負載加熱速率              |
| partial austenitizing       | 部份沃斯田體化               |
| partial dislocation         | 部份差排                  |
| partial dislocation         | 分差排                   |
| partial molar free energy   | 部分莫耳自由能 ; 偏莫耳自由能      |
| partial oxidation reactor   | 部分氧化反應器               |

|   |              |
|---|--------------|
| partial oxidation reformer              | 部分氧化重組器      |
| partial pressure                        | 分壓           |
| particle                                | 粒子           |
| particle                                | 粒子；顆粒        |
| particle size                           | 粒度；顆粒尺寸      |
| particle size distribution              | 粒度分佈         |
| particleboard                           | 木粒板；碎料板；刨花板  |
| particle-reinforced composite           | 粒子強化複材       |
| particles-induced X-ray emission (PIXE) | 粒子誘發 X-射線發射  |
| particle-size analysis                  | 粒度分析；粒徑分析    |
| particulate leaching                    | 顆粒瀝濾法；鹽析法    |
| particulate magnetic recording media    | 微粒磁記錄媒體      |
| particulate systems                     | 微粒系統         |
| parting                                 | 切開；分離；選擇腐蝕   |
| parting agent                           | 離模劑；脫膜劑      |
| parting line                            | 分模線；分界線      |
| parting plane                           | 分模面；分合面      |
| parting sand                            | 分膜砂          |
| partition chromatography                | 分隔色層分析法      |
| partition coefficient                   | 分配係數         |
| partition function                      | 分配函數         |
| partition tile                          | 隔磚           |
| Pascal-second                           | 帕·秒 { 黏度單位 } |
| pass                                    | 道次           |
| passion region                          | 鈍態區域         |
| passivation                             | 鈍化           |
| passive current density                 | 鈍態電流密度       |
| passive film                            | 鈍態膜          |
| passive-active cell                     | 鈍-活性電化腐蝕     |
| passivity                               | 不活性；鈍態       |
| paste                                   | 膏；糊          |
| paste carburizing                       | 糊漿滲碳         |

|                                |                      |
|--------------------------------|----------------------|
| pat test                       | 泥餅試驗                 |
| patching                       | 修補                   |
| patenting                      | 韌化退火；韌化              |
| pathobiology                   | 病理生物學                |
| pathophysiology                | 病理生理學                |
| patina                         | 銅綠                   |
| pattern                        | 模型                   |
| pattern draft                  | 拔模斜度                 |
| pattern metal                  | 模型金屬                 |
| pattern transfer               | 圖案轉印                 |
| patterning                     | 圖案化                  |
| Patterson function             | 派特森函數                |
| Pattinson process              | 柏汀生法 { 一種將銀與鉛分離之方法 } |
| Pauli exclusion principle      | 包里排他律；包里不相容原理        |
| Pauli exclusion principle      | 鮑立不相容原理              |
| Pauling's rule                 | 鮑林法則                 |
| pavement concrete              | 路面混凝土                |
| paving brick                   | 鋪地磚                  |
| paving mixer                   | 鋪路[面]拌合機             |
| Pb/PbO <sub>2</sub> system     | 鉛/氧化鉛系統              |
| p-cyanostyrene                 | 對氰基苯乙烯               |
| peach bloom                    | 桃紅                   |
| peacock blue                   | 孔雀藍                  |
| peak broadening                | [波]峰寬化               |
| peak shift                     | [波]峰偏移               |
| pearl ash                      | 珍珠灰                  |
| pearl polymerization           | 珍珠聚合                 |
| pearlite                       | 波來鐵；波來體              |
| pearlite critical cooling rate | 波來體臨界冷卻速率            |
| pearlite nose                  | 波來鐵鼻                 |
| pearlite range                 | 波來體範圍                |
| pearlite rim                   | 白緣                   |
| pearlitic cast iron            | 波來鑄鐵                 |

|                             |                       |
|-----------------------------|-----------------------|
| pearlitic malleable iron    | 波來可鍛鑄鐵                |
| peat                        | 泥煤                    |
| pebble                      | 卵石                    |
| pebble heater               | 卵石加熱器                 |
| pebble mill                 | 卵石研磨機                 |
| pebbling                    | 粗面效應；粗面法              |
| Pechini process             | 皮其尼檸檬酸鹽凝膠法            |
| pectase                     | 果膠酶                   |
| pectic acid                 | 果膠酸                   |
| pectin                      | 果膠                    |
| pedicle screw               | 椎根螺絲                  |
| peeling                     | 剝離；剝落；脫皮              |
| peen hardening              | 珠擊硬化法                 |
| peening                     | 鎚擊；輕敲；珠擊              |
| pegmatite                   | 偉晶花崗岩                 |
| Peierl's stress             | 皮爾氏應力                 |
| Peierls-Nabarro dislocation | 皮爾斯-拉巴諾差排             |
| Peierls-Nabarro force       | 皮爾斯-拉巴諾力              |
| Peirce-Smith converter      | 比爾西-史密斯轉爐             |
| pellet                      | 團塊；小丸                 |
| pelletizer                  | 製粒機                   |
| pelletizing                 | 球結法                   |
| Pellini drop-weight test    | 皮里尼落重試驗               |
| Pellini explosion test      | 皮里尼爆炸試驗               |
| peltier effect              | 貝爾蒂效應 { 熱電效應之一 }      |
| pencil edging               | 圓邊法                   |
| pencil glide                | 鉛筆束滑動 { 金屬內部之一種滑動現象 } |
| pendant                     | 懸垂物                   |
| pendant group               | 懸垂基                   |
| pendulum impact tester      | 擺錘式衝擊測試機              |
| penetrameter                | 穿透計                   |
| penetrant flaw detection    | 滲劑探傷                  |
| penetrate test              | 滲透[探傷]試驗              |

|                                     |              |
|-------------------------------------|--------------|
| penetration                         | 穿入；侵入        |
| penetration curve                   | 穿透曲線         |
| penetration depth                   | 穿入深度         |
| penetration fracture test (PF test) | 貫入破裂試驗；PF 試驗 |
| penetration index                   | 穿入度指數        |
| penicillinase                       | 青黴素酶         |
| penning vacuum gauge                | 潘寧真空計        |
| pentagonal prism                    | 五角稜鏡         |
| pentlandite                         | 鎳黃鐵礦         |
| pentoxide                           | 五氧化物         |
| pepsin                              | 胃蛋白酶         |
| peptide                             | 胜肽           |
| peptide bond                        | 肽鍵           |
| peptide nucleic acid                | 胜肽核酸         |
| peptize                             | 解膠           |
| peptizing agent                     | 膠溶劑          |
| peracid                             | 過酸           |
| percent cold reduction              | 冷作縮減百分比      |
| percentage reduction of area        | 斷面縮率         |
| perchloroethylene                   | 過氯乙烯         |
| percolating water                   | 滲透水          |
| percolation                         | 滲透；滲濾        |
| percolation region                  | 滲濾區          |
| percolation theory                  | 滲透理論         |
| percussion welding                  | [放電]衝擊熔接     |
| perfect conductor                   | 理想導體         |
| perfect crystal                     | 完美結晶         |
| perfect dislocation                 | 完全差排         |
| perfect elasticity                  | 理想彈性         |
| perfect gas                         | 理想氣體         |
| perfect plasticity                  | 完全塑性         |
| perfect solution                    | 理想溶液         |
| perfluoro ester cellulose           | 全氟酯纖維素       |

|  |                |
|--|----------------|
| perfluorocarbon ion exchange polymer structure | 全氟化碳離子交換結構     |
| perfluorocarbon structure                      | 全氟碳結構          |
| perfluorochemical                              | 全氟化學物          |
| perfluoropolyether                             | 全氟聚醚           |
| perfluorosulphonic acid                        | 全氟磺酸           |
| perforated brick                               | 多孔磚；散氣磚        |
| performance index                              | 性能指標；性能指數      |
| perfusion                                      | 灌流             |
| perfusion culture                              | 灌流培養           |
| periclase                                      | 方鎂石 { MgO }    |
| periodic kiln                                  | 間歇窯            |
| periosteal                                     | 骨膜             |
| peripheral nerve                               | 周邊神經           |
| peripheral speed                               | 周邊速率           |
| peritectic                                     | 包晶             |
| peritectic granulation                         | 包晶粒化           |
| peritectic point                               | 包晶點            |
| peritectic reaction                            | 包晶反應           |
| peritectic spheroidizing                       | 包晶球化           |
| peritectic transformation                      | 包晶轉變；包晶變態；包晶作用 |
| peritectoid                                    | 包析             |
| peritectoid reaction                           | 包析反應           |
| peritoneal dialysis                            | 腹膜透析           |
| perlite  | 珠岩             |
| Perma-bonding                                  | 柏瑪接合法          |
| permalloy                                      | 高導磁合金          |
| permanent deformation                          | 永久變形           |
| permanent dipole bond                          | 永久偶極鍵結         |
| permanent magnet                               | 永久磁體           |
| permanent magnet steel                         | 永久磁鋼           |
| permanent mold                                 | 永久模；金屬模        |
| permanent mold casting                         | 永久模鑄造          |
| permanent set                                  | 永久變形           |

|                             |             |
|-----------------------------|-------------|
| permanent strain            | 永久應變        |
| permanganate number         | 過錳酸鹽值       |
| permeability                | 滲透性；導磁率；透氣性 |
| permeability coefficient    | 滲透係數        |
| permeability reducing agent | 防透劑         |
| permeance                   | 磁導          |
| permeation                  | 滲透；透過；透氣    |
| permeation technique        | 滲透技術        |
| permittivity                | 介電係數；介電常數   |
| permselectivity             | 選擇透過性       |
| permutation symmetry        | 排列對稱        |
| permutoidal reaction        | 交換體反應       |
| Perosa beryllium process    | 畢路薩煉鈹法      |
| perovskite                  | 鈣鈦礦         |
| Perovskite catalyst         | 鈣鈦礦催化劑      |
| Perovskite structure        | 卜羅夫基組織      |
| peroxidase                  | 過氧化酶        |
| peroxidation                | 氧化性降解       |
| peroxide                    | 過氧化物        |
| persistent slip band        | 永留滑帶        |
| perthite                    | 條紋長石        |
| perturbation theory         | 擾動理論        |
| pervaporation               | 滲透蒸發法       |
| pesticide                   | 殺蟲劑         |
| petalite                    | 葉長石         |
| Petersen sir elutriator     | 倍德遜氣析器      |
| petrolatum                  | 石油脂；礦脂      |
| petrolene                   | 石油烯；軟瀝青     |
| petroleum                   | 石油          |
| petroleum coke              | 石油焦炭        |
| petroleum cracking          | 石油裂煉        |
| petroleum tar               | 石油渣         |
| petroleum wax               | 石油蠟         |

|   |                       |
|---|-----------------------|
| pewter                                  | 錫器合金 { 一種錫銻銅合金 } ; 白蠟 |
| pH value                                | pH 值                  |
| phalloidin                              | [毒]蠅虎蕈鹼               |
| phalloidine                             | [毒]蠅虎蕈鹼               |
| pharmacokinetics                        | 藥物動力學                 |
| phase                                   | 相                     |
| phase change material                   | 相變材料                  |
| phase conjugation                       | 相位共軛                  |
| phase contact                           | 相接觸                   |
| phase contrast microscopy               | 相對比顯微術                |
| phase contrast transfer function (PCTF) | 相位對比轉移函數              |
| phase diagram                           | 相圖 { 平衡圖 }            |
| phase equilibrium                       | 相平衡                   |
| phase lag                               | 相位延遲                  |
| phase object approximation (POA)        | 相位物件近似法               |
| phase rule                              | 相律                    |
| phase transformation                    | 相變 ; 相轉變 ; 相變態        |
| phase transformation rate               | 相變速率 ; 相變態速率          |
| phase-contrast microscopy               | 相對比顯微學                |
| phase-equilibrium diagram               | 相平衡圖                  |
| phenolase                               | 酚酶                    |
| phenolysis                              | 酚解                    |
| phenocryst                              | 斑晶                    |
| phenotype                               | 表現型 ; 原型              |
| phenylcellulose                         | 苯基纖維素                 |
| phonon                                  | 聲子                    |
| phonon confinement                      | 聲子侷限                  |
| phonon coupling                         | 聲子耦合                  |
| phosphate                               | 磷酸鹽                   |
| phosphate ester                         | 磷酸酯                   |
| phosphate glass                         | 磷酸玻璃                  |
| phosphate-coated steel                  | 磷酸鹽護膜鋼                |

|  |                 |
|--|-----------------|
| phosphate-conversion coating               | 磷酸鹽轉化護膜         |
| phosphating                                | 磷酸鹽處理           |
| phosphide sweat                            | 磷汗              |
| phosphine                                  | 磷               |
| phosphite                                  | 亞磷酸鹽            |
| phosphonate                                | 磷酸酯             |
| phosphonated polyester                     | 磷酸化聚酯           |
| phosphor                                   | 磷光質 ; 磷光體 ; 磷光劑 |
| phosphor bronze                            | 磷青銅             |
| phosphor copper                            | 磷銅              |
| phosphor tin                               | 磷錫              |
| phosphorescence                            | 磷光              |
| phosphoric acid fuel cell (PAFC)           | 磷酸燃料電池          |
| phosphoric acid fuel cell (PAFC)           | 磷酸型燃料電池         |
| phosphoric pig iron                        | 高磷生鐵            |
| phosphorous acid                           | 亞磷酸             |
| phosphorus (P)                             | 磷               |
| phosphorus banding                         | 磷帶              |
| phosphorus printing                        | 磷印刷             |
| phosphorylase                              | 磷解酶             |
| phosphorylation                            | 磷酸化[作用]         |
| phosphorus-containing cellulose derivative | 含磷纖維素衍生物        |
| photocarrier                               | 光載子 ; 光載體       |
| photocatalyst                              | 光觸媒             |
| photocatalytic property                    | 光催化特性           |
| photochemical crosslinking                 | 光化學交聯           |
| photochemical effect                       | 光化效應            |
| photochemical fuel cell                    | 光化學燃料電池         |
| photochemicatalytic                        | 光化學催化劑          |
| photochemistry                             | 光化學             |
| photochromism                              | 光致變色            |
| photocoloration                            | 光著色             |

|                                 |           |
|---------------------------------|-----------|
| photoconductive polymer         | 光導電性高分子   |
| photoconductivity               | 光電導性      |
| photoconductor                  | 光電導體      |
| photocrosslinking               | 光交聯       |
| photocurrent                    | 光電流       |
| photocyanation reaction         | 光氰化反應     |
| photodecomposition              | 光分解       |
| photodecrosslinking             | 光解交聯      |
| photodegradation                | 光降解       |
| photodissociation               | 光解離       |
| photoelastic material           | 光彈材料      |
| photo-elastic stress analysis   | 光彈性應力分析   |
| photoelasticity                 | 光彈性       |
| photoelectric pyrometer         | 光電高溫計     |
| photoelectricity                | 光電性       |
| photoelectrochemical cell       | 光電化學電池    |
| photoelectron                   | 光電子       |
| photoemission spectroscopy      | 光發射光譜術    |
| photoengraving patterning (PEP) | 光刻圖案化     |
| photofabrication                | 感光蝕刻加工    |
| photofragmentation              | 光碎裂       |
| photographic emulsion           | 照相乳膠      |
| photoinitiated oxidation        | 光起始氧化     |
| photoionization                 | 光致電離      |
| photoisomerization              | 光異構化      |
| photolithography                | 光石刻術；光微影術 |
| photoluminescence               | 光致發光      |
| photoluminescence spectroscopy  | 光致發光光譜術   |
| photoluminescence spectrum      | 光致發光光譜    |
| photoluminescence               | 電磁螢光      |
| photolysis                      | 光解        |

|                                 |                 |
|---------------------------------|-----------------|
| photomagnetic effect            | 光磁效應            |
| photometer                      | 光度計             |
| photometric pyrometer           | 光度高溫計           |
| photomicrograph                 | 顯微相片            |
| photomicrography                | 顯微照相術           |
| photomicrostructure             | 顯微照相組織          |
| photomodification               | 光改質             |
| photomultiplier                 | 光倍增器            |
| photon                          | 光子              |
| photonegative effect            | 負光電效應           |
| photoneutron                    | 光中子             |
| photonic band gap (PBG)         | 光子[能]帶隙         |
| photonic crystal                | 光子晶體            |
| photonic signal                 | 光子信號            |
| photonics                       | 光子學             |
| photoreceptor                   | 光感受器            |
| photoresist                     | 光阻；感光抗膜         |
| photosensitive glass            | 感光玻璃            |
| photosensitizer                 | 光敏劑             |
| photostress                     | 光彈性材料 { 應力分析用 } |
| photosynthesis                  | 光合成；光合作用        |
| phototransistor                 | 光電晶體            |
| photovoltage                    | 光電壓             |
| physical characteristics        | 物理特性            |
| physical metallurgy             | 物理冶金學           |
| physical surface hardening      | 物理表面硬化法         |
| physical vapor deposition (PVD) | 物理氣相沉積[法]       |
| piano wire                      | 鋼琴線             |
| piano wire screen               | 鋼琴線篩網           |
| pickle basket                   | 浸酸籃             |
| pickle brittleness              | 酸洗脆性            |
| pickling                        | 酸洗；浸酸           |

|                        |                    |
|------------------------|--------------------|
| pickling embrittlement | 酸洗脆性               |
| pickling inhibitor     | 酸洗抑制劑              |
| picotite               | 鉻尖晶石               |
| picral                 | 苦味酸蝕劑              |
| picric acid            | 苦味酸                |
| Pidgeon process        | 比金法 { 一種以砒鐵還原煉鎂法 } |
| piercing               | 穿孔                 |
| piercing punch         | 穿孔衝頭               |
| piezodialysis          | 壓力透析               |
| piezoelectric crystal  | 壓電晶體               |
| piezoelectric ceramics | 壓電陶瓷               |
| piezoelectric effect   | 壓電效應               |
| piezoelectricity       | 壓電性；壓電學；壓電現象       |
| piezo-magnetism        | 壓磁現象；壓磁學           |
| pig and ore process    | 生鐵礦石法              |
| pig and scrap process  | 生鐵廢鋼法              |
| pig iron               | 生鐵                 |
| pig-bed                | 鑄床 { 多餘鐵水澆鑄床 }     |
| pigging                | 澆錠 { 生鐵 }          |
| pigment                | 顏料                 |
| pigskin                | 豬皮狀                |
| pigtails catheter      | 豬尾型導管              |
| pillar                 | 柱                  |
| pillar press           | 立柱壓機               |
| pillaring              | 柱化                 |
| pilot                  | 導件                 |
| pilot hole             | 導孔                 |
| pilot pin              | 導銷                 |
| pilot plant            | 先導工場；試造工場          |
| pin mark               | 針跡                 |
| pinch analysis         | 夾點分析               |
| pinch pass             | 輕度冷軋               |

|                       |                                  |
|-----------------------|----------------------------------|
| pinchbeck             | 飾物黃銅 { 含 5-15%Zn 之 $\alpha$ 黃銅 } |
| pin-hole              | 針孔                               |
| pinhole method        | 針孔法                              |
| pinite                | 塊雲母                              |
| Piobert lines         | 彼奧柏線 { 變形滑帶 }                    |
| pipe blister          | 吹管泡                              |
| pipe casting          | 鑄管                               |
| pipe chaplet          | 管狀砂心撐                            |
| pipe quenching        | 管淬火                              |
| pipette method        | 吸管法 { 測定粒度 }                     |
| piping design         | 管線設計                             |
| Pirani gauge          | 派藍尼[真空]計                         |
| piston alloy          | 活塞合金                             |
| piston cast iron      | 活塞鑄鐵                             |
| pit                   | 坑                                |
| pit casting           | 地坑鑄造                             |
| pit furnace           | 坑式爐                              |
| pit run gravel        | 坑礫石                              |
| pitch                 | 瀝青；節距                            |
| pitchblende           | 瀝青原礦                             |
| pitchers              | 素燒碎片                             |
| pitman                | 連桿；搖桿                            |
| pitot tube            | 皮托管                              |
| pitting               | 孔蝕；坑蝕                            |
| pitting corrosion     | 孔蝕                               |
| pitting factor        | 孔蝕因素                             |
| placer                | 裝窯工                              |
| placing sand          | 墊砂                               |
| plagioclase           | 斜長石                              |
| plain carbon steel    | 普通碳鋼                             |
| plain steel           | 普通鋼                              |
| planar atomic density | 平面原子密度                           |
| planar defect         | 面缺陷                              |
| planar density        | 平面密度                             |

|                                 |                     |
|---------------------------------|---------------------|
| planar design                   | 平板式設計 { 固態氧化物燃料電池 } |
| Planck's constant               | 浦朗克常數               |
| Planck's law                    | 浦郎克定律               |
| plane strain fracture toughness | 平面應變破裂韌性            |
| planes of easy slip             | 易滑[晶]面              |
| planetary mill                  | 行星式軋機               |
| planishing                      | 打平                  |
| plasma                          | 電漿；血漿               |
| plasma                          | 電漿                  |
| plasma display panel (PDP)      | 電漿顯示器面板             |
| plasma etching                  | 電漿蝕刻                |
| plasma fractionation            | 血漿分離                |
| plasma membrane                 | 漿[透]膜               |
| plasma polymerization           | 電漿聚合[作用]            |
| plasma reformer                 | 電漿重組器               |
| plasma spraying                 | 電漿噴塗法；電漿熔射法；電漿噴散    |
| plasma-arc machining            | 電漿弧加工               |
| plasma-arc spraying             | 電漿弧噴塗               |
| plasmon                         | 電漿子                 |
| plasms-arc cutting              | 電漿弧切割               |
| plaster                         | 熟石膏；橡皮膏             |
| plaster mold                    | 石膏模                 |
| plaster of Paris                | 巴黎石膏 { 俗名熟石膏 }      |
| plastic constraint              | 塑性抑制                |
| plastic cornea                  | 塑膠角膜 { 人工角膜 }       |
| plastic deformation             | 塑性變形                |
| plastic fireclay                | 塑性耐火黏土              |
| plastic flow                    | 塑性流動                |
| plastic instability             | 塑性不安定性              |
| plastic making                  | 塑性成形                |
| plastic pressing                | 塑性壓製                |
| plastic refractory              | 塑性耐火材；可塑耐火材         |

|                                       |   |
|---------------------------------------|---|
| plastic replica                       | 塑膠複製品；塑膠複印膜 { TEM 用 }                           |
| plastic steel                         | 塑膠鋼   |
| plastic strain                        | 塑性應變  |
| plastic strain ratio                  | 塑性應變比   |
| plastic transistor                    | 塑膠電晶體   |
| plastic working                       | 塑性加工  |
| plastication                          | 塑熔；塑煉   |
| plasticity                            | 塑性；可塑性  |
| plasticization                        | 可塑化；塑化  |
| plasticizer                           | 塑化劑；可塑劑   |
| plastics                              | 塑料；塑膠   |
| plastigel                             | 塑性凝膠  |
| plastisol                             | 塑料溶膠  |
| plastogel                             | 塑性凝膠  |
| plastometer                           | 塑性測定計；塑譜儀                                       |
| plastometer test                      | 塑性測定儀試驗；塑性試驗                                    |
| plate                                 | 板料  |
| plate die                             | 樣板模   |
| plate glass                           | 板玻璃   |
| plate mill                            | 軋板機   |
| plate reformer                        | 平板重組器   |
| plateability                          | 電鍍性   |
| platelet                              | 血小板   |
| platelet coagulant activity           | 血小板凝血活性   |
| platelet-derived growth factor (PDGF) | 血小板衍生生長因子                                       |
| platen                                | 平台  |
| platina                               | 鉑金 { 含 10-12%Pt 之金合金 }                          |
| plating                               | 鍍；電鍍；鍍覆   |
| platinoid                             | 代鉑合金 { 含 50-60%Cu；10-25%Ni；有時加 2%W；其餘為 Zn 之合金 } |
| platinum                              | 白金；鉑  |
| platinum (Pt)                         | 鉑   |



|                           |                |
|---------------------------|----------------|
| platinum black            | 鉑黑 { 極細鉑粉 }    |
| platinum black sol        | 鉑黑溶膠           |
| platinum colloid          | 白金膠體           |
| platinum electrode        | 白金電極           |
| platter                   | 鍛坯 { 未經修飾之鍛件 } |
| plucking                  | 剝痕             |
| plug                      | 塞              |
| plug drawing              | 有心拉管法          |
| plug weld                 | 塞孔熔接           |
| plug-type insert          | 塞式嵌件           |
| plumbago                  | 石墨 ; 碳陶料       |
| plunger                   | 柱塞             |
| plunger molding           | 柱塞模製           |
| plus sieve                | 未過篩粉末          |
| plutonium (Pu)            | 鈾              |
| plutonium reactor         | 鈾反應器           |
| ply glass                 | 層合玻璃           |
| plywood                   | 合板             |
| PM part                   | 粉末冶金製零件        |
| PM process                | 粉末冶金製程         |
| pneumatic controller      | 氣動控制器          |
| pneumatic hammer          | 氣動鎚            |
| pneumatic micrometer      | 氣動量測計          |
| pneumatolysis             | 氣化             |
| p-n-p junction transistor | p-n-p 接點電晶體    |
| point coordinate          | 配位點            |
| point defect              | 點缺陷            |
| point group lattice       | 點群晶格           |
| point imperfection        | 點缺陷            |
| point lattice             | 點晶格            |
| point potential effect    | 點電位效應          |
| point-dipole approach     | 點偶極近似法         |
| poise                     | 泊              |
| poison                    | 毒化             |

|                            |                  |
|----------------------------|------------------|
| Poisson distribution       | 蒲松分佈             |
| Poisson's number           | 蒲松數              |
| Poisson's ratio            | 蒲松比              |
| polar bond                 | 極性鍵 { 即離子鍵 }     |
| polar bonding              | 極性鍵結 { 即離子鍵結 }   |
| polar crystal              | 極化晶體             |
| polar group                | 極性基              |
| polar molecule             | 極化分子 ; 有極分子      |
| polar moment of inertia    | 慣性極力矩            |
| polar nets                 | 極網圖              |
| polarimetry                | 偏光測定法 ; 旋光測定法    |
| polariscope                | 偏光儀 ; 旋光儀        |
| polarity                   | 極性               |
| polarizability             | 極化性 ; 極化率        |
| polarization               | 極化[作用] ; 偏振 ; 分極 |
| polarization               | 極化               |
| polarization cell          | 極化電池             |
| polarization corrosion     | 極化腐蝕             |
| polarization curve         | 極化曲線             |
| polarization factor        | 極化因素 ; 偏振        |
| polarization force         | 極化力              |
| polarization orientation   | 極化方位             |
| polarization spectroscopy  | 偏光光譜術            |
| polarized cell technique   | 極化電池技術           |
| polarized light            | 偏光 ; 偏振光 ; 旋光    |
| polarized light microscopy | 偏光顯微術            |
| polarizer                  | 偏光鏡 ; 偏光器        |
| polarizing film            | 偏光膜              |
| polarographic curve        | 極譜曲線             |
| polarography               | 極譜術              |
| polaroid                   | [人造]偏表片          |
| polaron                    | 極化子              |

|  |                        |
|--|------------------------|
| polaron conduction   | 偏極子傳導                  |
| poldi  | 寶迪硬度計                  |
| Pole figure  | 極圖                     |
| pole mechanism   | 極機構 { 雙晶成長極機構 }        |
| poling   | 極化；樹枝攪動淨化法 { 一種銅的精煉法 } |
| polishing  | 拋光；磨光                  |
| polonium (Po)  | 釷                      |
| poly(alkyl cyanoacrylate)  | 烷基氰基丙烯酸酯聚合體            |
| poly(alkylpolyphosphazene)   | 烷基聚磷腈聚合體               |
| poly(D,L)-lactide  | 右左消旋乳酸聚合體              |
| poly(desamino tyrosin ethyl ester carbonate) {poly(DTE carbonate)} | 去胺酪胺醯基酪胺酸乙基乙酯碳酸鹽聚合體    |
| poly(dichlorophosphazene) (PDCP)                                   | 二氯磷腈聚合體                |
| poly(dimethyl siloxane) (PDMS)                                     | 二甲基矽氧烷聚合體              |
| poly(diphenoxy phosphazene) (PDPP)                                 | 二苯氧基磷腈聚合體              |
| poly(ester urethane)   | 酯胺酯聚合體                 |
| poly(N-vinyl-2-pyrrolidone) (PNVP)                                 | 聚乙烯吡咯酮                 |
| poly(phenylene terephthalamide)                                    | 伸苯基對苯醯胺聚合體             |
| poly(p-phenylene vinylene)   | 對苯伸乙烯聚合體               |
| poly(propylene fumarate) (PPF)                                     | 丙烯富馬酸聚合體；丙烯反丁烯二酸酯聚合體   |
| poly( $\alpha$ -hydroxy acid)                                      | $\alpha$ -羥酸聚合體        |
| poly( $\rho$ -dioxanone)   | $\rho$ -二氧雜環己酮聚合體      |
| poly[bis(carboxy phenoxy) phosphazene]                             | 二(羧基苯氧基)磷腈聚合體          |
| poly[bis(carboxylato phenoxy)phosphazene] (PCPP)                   | 二(羧根基苯氧基)磷腈聚合體         |
| poly[bis(methyl) phosphazene]                                      | 二甲基磷腈聚合體               |
| poly[bis(trifluoro ethoxy)phosphazene] (PTFEP)                     | 二(三氟乙氧基)磷腈聚合體          |
| polyacetylene  | 乙炔聚合體                  |

|                                     |                       |
|-------------------------------------|-----------------------|
| polyacrylamide                      | 丙烯醯胺聚合體               |
| polyamide                           | 醯胺聚合體                 |
| polyanhydride                       | 酞聚合體                  |
| polycaprolactone (PCL)              | 己內酯聚合體                |
| polycarbonate                       | 碳酸酯聚合體                |
| polycarboxylic acid                 | 多羧酸                   |
| polychrome decoration               | 多色彩                   |
| polycondensation                    | 縮聚合[反應]；縮合聚合[反應]      |
| polyconstituent fiber               | 多成分纖維                 |
| polycrystalline aggregate           | 多晶[粒]聚集體              |
| polycrystalline material            | 多晶[粒]材料               |
| polycyanoacrylate                   | 氰基丙烯酸酯聚合體             |
| polydioxanone (PDS)                 | 氧環己酮聚合體               |
| polydispersity                      | 多分散性                  |
| polydisperse polymer                | 多分散型高分子               |
| polyethylene-encapsulated cellulose | 聚乙烯包覆纖維素              |
| polyelectrolyte                     | 聚電解質                  |
| polyester                           | 聚酯                    |
| polyesterification                  | 聚酯化                   |
| polyether                           | 聚醚                    |
| polyether polyol                    | 聚醚醇                   |
| polyether-based foam                | 聚醚基發泡體                |
| polyethylene                        | 乙烯聚合體                 |
| polyethylene glycol (PEG)           | 乙二醇聚合體                |
| polyethylene terephthalate (PET)    | 聚對苯二甲酸乙二醇酯            |
| polyfluorene (PFO)                  | 聚芴                    |
| polyglutamic acid (PGA)             | 聚胺氨酸                  |
| polyglycolide                       | 聚甘胺酸交酯                |
| polygon walls                       | 多邊形壁                  |
| polygonization                      | 多邊形化 { 差排經退火後集結為次晶界 } |
| polyhedral shape                    | 多面體形                  |
| polyhedron                          | 多面體                   |

|                                      |                   |
|--------------------------------------|-------------------|
| polyhemoglobin                       | 聚血紅素              |
| polyhydric alcohol                   | 多元醇；多羥基酒精         |
| polyhydroxybutyrate (PHB)            | 羥基丁酸酯聚合體          |
| polyhydroxyvalerate (PHV)            | 羥基戊酸酯聚合體          |
| polyion                              | 聚離子               |
| polyion film                         | 聚離子膜              |
| polyisocyanates                      | 聚異氰酸酯             |
| polylactide                          | 聚乳酸               |
| polymer                              | 聚合物；高分子           |
| polymer electrolyte                  | 高分子電解質            |
| polymer electrolyte fuel cell (PEFC) | 高分子電解質燃料電池        |
| polymer light emitting diode (PLED)  | 聚合體發光二極體；高分子發光二極體 |
| polymer transfer                     | 聚合物轉移             |
| polymerase                           | 聚合酶               |
| polymerase chain reaction (PCR)      | 聚合酶連鎖反應           |
| polymeric ampholyte                  | 聚合型雙性電解質          |
| polymeric anhydride                  | 高分子型酸酐            |
| polymeric bithiazole                 | 高分子型雙噻唑           |
| polymeric dendrimer                  | 聚合枝狀體；高分子枝狀體      |
| polymeric electrolyte                | 高分子電解質；聚合體電解質     |
| polymeric flocculant                 | 高分子型凝聚體           |
| polymerization                       | 聚合作用；聚合反應         |
| polymethacrylate (PMA)               | 聚丙烯酸酯             |
| poly-methyl-methacrylate (PMMA)      | 聚甲基丙醯酸甲酯          |
| polymolecularity                     | 多分子性              |
| polymorphic change                   | 多形變化              |
| polymorphism                         | 同質異形體；同質異形性；多形性   |
| polynitroxide                        | 聚氮氧化物             |
| polynosic cellulose                  | 虎木棉纖維素；高溼模數纖維素    |
| polyol                               | 聚醇                |

|   |                             |
|---|-----------------------------|
| polyolefin fiber                        | 聚烯纖維                        |
| polyorthoester                          | 原酸酯聚合體                      |
| polyperoxide                            | 聚過氧化物                       |
| polyphenylene vinylene (PPV)            | 聚伸苯[伸]乙烯                    |
| polyphosphazene                         | 聚磷腈                         |
| polyradical                             | 聚自由基                        |
| polysaccharidase                        | 多醣酶                         |
| polysaccharide                          | 多醣                          |
| polysaccharides                         | 多醣類                         |
| polysalt                                | 聚鹽                          |
| polysilane                              | 聚矽烷                         |
| polysilicate                            | 聚矽酸鹽                        |
| polysiloxane                            | 聚矽氧烷                        |
| polysoap                                | 聚皂                          |
| polystyrene                             | 聚苯乙烯                        |
| polysulfide rubber                      | 聚硫橡膠                        |
| polytetrafluoroethylene (PTFE) {Teflon} | 聚四氟乙烯；鐵氟龍                   |
| polyurethane                            | 聚氨基酯                        |
| polyurethane (PU)                       | 聚胺酯；聚胺甲酸酯                   |
| polyvalent bond                         | 多價鍵                         |
| polyvinyl acetate (PVA)                 | 聚醋酸乙烯酯                      |
| polyvinyl alcohol (PVA)                 | 乙烯醇聚合體                      |
| pop riveting                            | 單面鉚接法                       |
| pop-in/pop-out                          | 突進/突出 { 機械試驗之不穩定應力應變曲線的現象 } |
| porcelain                               | 瓷；瓷器                        |
| porcelain enamel                        | 瓷質琺瑯                        |
| porcelain tile                          | 瓷磚                          |
| porcelain-enameled steel panel          | 搪瓷鋼板                        |
| pore                                    | 細孔                          |
| pore size distribution                  | 孔徑分布                        |
| pore water                              | 孔隙水                         |
| pore-forming materials                  | 造孔材料                        |

|  |              |
|--|--------------|
| pore-size distribution                   | 孔度分布         |
| Porod's law                              | 波樂定律 { X 光 } |
| porosimeter                              | 孔隙計          |
| porosity                                 | 孔隙率；孔隙度；多孔性  |
| porous brick                             | 多孔磚          |
| porous electrode                         | 多孔電極         |
| porous silicon                           | 多孔矽          |
| porous tantalum structure                | 多孔性鉭結構       |
| porphyrin                                | 紫質           |
| porphyrite                               | 斑岩           |
| port                                     | 口；噴火口        |
| portable scale                           | 手提秤          |
| porter bar                               | 持取棒          |
| portland cement                          | 波特蘭水泥        |
| positive electron                        | 正電子          |
| positive hole                            | 正電[子]孔       |
| positive photoresist                     | 正型光阻         |
| positive resist process                  | 正型阻劑製程       |
| positive-iron core                       | 陽極鐵心         |
| positron                                 | 正電子；正子       |
| positron annihilation spectroscopy (PAS) | 正子湮滅光譜術      |
| positron emission tomography (PET)       | 正子放射斷層造影術    |
| positronium                              | 正子電子偶        |
| postheat                                 | 後熱           |
| pot                                      | [熔]罐         |
| pot annealing                            | 罐封退火；閉匣退火    |
| pot arch                                 | 烘罐窯          |
| pot clay                                 | 製罐黏土         |
| pot furnace                              | 罐爐           |
| pot life                                 | 適用期          |
| pot quenching                            | 罐封淬火         |
| potash feldspar                          | 鉀長石          |
| potassium (K)                            | 鉀            |

|  |                        |
|--|------------------------|
| potassium ferricyanide                   | 鐵氰化鉀                   |
| potassium hydroxide                      | 氫氧化鉀                   |
| potassium silicate                       | 矽酸鉀                    |
| potential                                | 電位                     |
| potential barrier                        | 勢壘；位能障峰                |
| potential meter                          | 電位計；電勢計；分壓計            |
| potential pH diagram                     | 電位與 PH 值關係曲線 { 波貝克斯圖 } |
| potential step method                    | 階梯電位法                  |
| potential sweep method                   | 掃描電位法                  |
| potential trough                         | 勢槽；位能谷                 |
| potential-energy function                | 位能函數                   |
| potentiometric titration                 | 電位滴定                   |
| potentiostat                             | 電位自動調整裝置               |
| potentiostatic anodic polarization curve | 恆定電位陽極極化曲線             |
| potette                                  | 醃料器                    |
| potical pyrometer                        | 光學高溫計；光度高溫計            |
| potline                                  | [電解鋁]爐列                |
| potter wheel                             | 陶輪                     |
| pottery                                  | 陶瓷器；陶瓷                 |
| potting compound                         | 封裝化合物 { 半導體封裝用 }       |
| pounding mill                            | 撞臼                     |
| pour point                               | 傾流溫度                   |
| Pourbaix diagram                         | 波貝克斯圖 { 電位與 PH 值關係曲線 } |
| pouring basin                            | 澆池                     |
| pour-welding                             | 澆注熔接法                  |
| powder camera                            | 粉末法照像機                 |
| powder coating                           | 粉末塗料                   |
| powder diffraction                       | 粉末繞射法                  |
| powder flow meter                        | 粉末流量計                  |
| powder granules dry pressing             | 粉末乾燥過程                 |
| powder injection                         | 粉末噴射                   |

|                               |                 |
|-------------------------------|-----------------|
| powder lubricant              | 粉末潤滑劑           |
| powder metallurgy (PM)        | 粉末冶金[學]         |
| powder method                 | 粉末法             |
| powder microelectrode         | 粉末微電極           |
| powder pressing               | 粉末壓實            |
| powder rolling                | 粉末軋型            |
| powdered coal                 | 粉煤              |
| powdered metal                | 粉末金屬            |
| power curve                   | 功率曲線            |
| power density                 | 功率密度            |
| power distribution            | 配電              |
| power drop hammer             | 動力落錘            |
| power factor                  | 功率因數            |
| power factor meter            | 功率因數錶           |
| power hammer                  | 動力鎚             |
| power line carrier technology | 電力線載波技術         |
| power shovel                  | 動力鏟             |
| power triangle                | 功率三角形           |
| pozzolan                      | 火山灰             |
| pozzolana                     | 卜作嵐             |
| pozzoli                       | 普蜀里 { 一種水泥添加劑 } |
| praseodymium (Pr)             | 鐳               |
| pre-alloyed powder            | 預製合金粉           |
| prebacked anode               | 預烘陽極            |
| prebacked concrete            | 預壘混凝土           |
| precession camera             | 迴轉照相機 { X-光 }   |
| precious metal                | 貴金屬             |
| precipitant                   | 沉澱劑             |
| precipitate                   | 析出物             |
| precipitate                   | 沉澱物 ; 析出物       |
| precipitate free zone         | 無析出帶 ; 析出空乏區    |
| precipitate hardening         | 析出硬化            |
| precipitate particle          | 析出粒子            |

|  |                   |
|--|-------------------|
| precipitation                            | 沉澱[作用]            |
| precipitation hardening steel            | 析出硬化鋼             |
| precipitation heat treatment             | 析出熱處理             |
| precipitation treatment                  | 析出處理              |
| precipitation-hardenable stainless steel | 析出硬化型不銹鋼          |
| precipitin reaction                      | 沉澱素反應             |
| precision balance                        | 精密天平              |
| precision casting                        | 精密鑄造法 ; 精密鑄件      |
| preconditioning                          | 前處理 ; 預處理         |
| precooling                               | 預冷                |
| precursor                                | 前驅物               |
| predicting creep strength                | 預測潛變強度            |
| predrying                                | 預乾                |
| Preece test                              | 普里斯試驗 { 鍍鋅厚度測量法 } |
| preferred orientation                    | 優選方向              |
| preform                                  | 預製 ; 預形體 ; 預製件    |
| preformed nuclei                         | 預成核               |
| preforming impression                    | 預製型               |
| preheat                                  | 預熱                |
| preheat air                              | 預熱空氣              |
| preheating                               | 預熱                |
| preheating furnace                       | 預熱爐               |
| preheating zone                          | 預熱帶               |
| preimpregnated material                  | 預浸材料              |
| preliminary impression                   | 預備型 ; 初製型         |
| premium casting                          | 保證鑄件              |
| premixing                                | 預混                |
| preplastication                          | 預塑化               |
| prepolymer                               | 預聚合物              |
| pregreg                                  | 預浸體               |
| pregreg process                          | 預浸材製程             |
| preservative                             | 防腐劑               |

|                                 |          |                                 |           |
|---------------------------------|----------|---------------------------------|-----------|
| press                           | 壓機       | pressurized combustion reformer | 高壓燃燒重組器   |
| press casting                   | 壓力鑄造法    | pressurized water reactor       | 壓力水反應器    |
| press fit                       | 壓入配合     | prestress forming               | 預力成形      |
| press forging                   | 壓機鍛造     | prestressed concrete            | 預力混凝土     |
| press forming                   | 壓機成形     | preventive measures corrosion   | 防蝕法       |
| press quenching                 | 壓緊淬火     | primary air                     | 主空氣；一次空氣  |
| press slide                     | 壓機滑塊     | primary aluminium               | 初生鋁       |
| press tempering                 | 壓緊回火     | primary amine                   | 一級胺；伯胺    |
| press-and-blow process          | 壓吹法      | primary austenite               | 初生沃斯田體    |
| press-brake forming             | 折板機成形    | primary bainite                 | 初生變韌體     |
| pressed density                 | 壓形密度     | primary battery                 | 一次電池      |
| pressed glass                   | 壓製玻璃     | primary boiling                 | 初沸        |
| pressing                        | 壓製；模壓    | primary cementite               | 初生雪明碳體    |
| pressing crack                  | 壓裂       | primary clay                    | 原生黏土      |
| pressure                        | 壓力       | primary creep                   | 初期潛變      |
| pressure capacity               | 壓力容量     | primary crusher                 | 初碎機       |
| pressure casting                | 壓注；壓力鑄造  | primary crystal                 | 初晶        |
| pressure coefficient            | 壓力係數     | primary graphite                | 初生石墨      |
| pressure die casting            | 壓鑄       | primary graphitizing            | 初生石墨化     |
| pressure distribution           | 壓力分佈     | primary metal                   | 初生金屬      |
| pressure drop                   | 壓降       | primary mill                    | 初級軋機      |
| pressure effect                 | 壓力效應     | primary passive potential       | 初鈍化電位     |
| pressure electrolysis           | 高壓電解     | primary phase                   | 初生相       |
| pressure gradient               | 壓力梯度     | primary quenching               | 初次淬火      |
| pressure leaching               | 加壓浸濾     | primary slip system             | 主滑移系統     |
| pressure nitriding              | 加壓氮化     | primary solid solution          | 初生固溶體     |
| pressure resistant test         | 耐壓試驗     | primary sorbite                 | 初生糙斑體     |
| pressure roll                   | 壓力輥      | primary structure               | 主要結構；初生組織 |
| pressure sintering              | 加壓燒結     | primary troostite               | 初生吐粒散體    |
| pressure swing adsorption (PSA) | 變壓式吸附[法] | primer                          | 底漆        |
| pressure transducer             | 壓力傳感器    | primitive lattice               | 原始晶格      |
| pressure welding                | 壓力熔接     | primitive translation vector    | 原始平移向量    |
| pressure-sensitive tape         | 感壓性膠帶    | primitive unit cell             | 原始單位晶胞    |

|                          |                      |
|--------------------------|----------------------|
| principal quantum number | 主量子數                 |
| principal shear strain   | 主剪應變                 |
| principal shear stress   | 主剪應力                 |
| principal stress         | 主應力                  |
| printability             | 可印性                  |
| printed-circuit board    | 印刷電路板                |
| printing                 | 印刷                   |
| printing plate           | 印刷板                  |
| prismatic dislocation    | 稜柱差排                 |
| prismatic glass          | 稜鏡玻璃                 |
| prismatic plane          | 稜柱面                  |
| probe                    | 探針                   |
| probe-microanalyser      | 電子探針顯微分析儀            |
| probit test              | 統計疲勞試驗法 { P-S-N 曲線 } |
| process annealing        | 製程退火                 |
| process computer         | 程式電子計算機              |
| process metallurgy       | 製造冶金學；製鍊冶金學          |
| processing               | 加工                   |
| producer gas             | 發生爐氣                 |
| productive metallurgy    | 生產冶金學                |
| proeutectic              | 初晶                   |
| proeutectic phase        | 亞共晶相                 |
| proeutectoid             | 初析                   |
| profile                  | 輪廓；外型；側部面；孔型         |
| profile microscopy       | 輪廓顯微術                |
| profilometer             | 輪廓儀                  |
| profilometry             | 輪廓法；輪廓術              |
| progenitor cells         | 前驅細胞                 |
| program                  | 程式                   |
| programing               | 程式設計                 |
| programmable controller  | 可程式化控制器              |
| progressive aging        | 溫度遞增時效處理             |

|                                 |                             |
|---------------------------------|-----------------------------|
| progressive austempering        | 漸進沃斯回火                      |
| progressive die                 | 順序模                         |
| progressive fracture            | 漸進破斷                        |
| progressive quenching           | 漸進淬火                        |
| projection lithography          | 投影石刻術                       |
| projection welding              | 突點熔接                        |
| proliferation                   | 增殖                          |
| prolite                         | 普樂力體 { 一種燒結碳化物材料 }          |
| promethium (Pm)                 | 鉅                           |
| promoter                        | 促進劑                         |
| prompt tempering                | 立即回火                        |
| proof strength                  | 保證強度                        |
| proof stress                    | 保證應力 { 用 0.2% 橫距法求得者 }；安全應力 |
| propagation                     | 增長；傳播                       |
| propagation constant            | 傳播常數                        |
| propane                         | 丙烷                          |
| property                        | 性質                          |
| Properzi casting process        | 柏普茲鑄鍊法                      |
| proportional control            | 比例控制                        |
| proportional counter            | 比例計數器                       |
| proportional limit              | 比例限[度]                      |
| proportional-derivative control | 比例微分控制                      |
| proportional-integral control   | 比例積分控制                      |
| propylene glycol                | 丙二醇                         |
| prospecting                     | 採礦                          |
| prostheses                      | 義肢；輔助器                      |
| protactinium (Pa)               | 鏷                           |
| protease                        | 蛋白酶                         |
| proteasome                      | 蛋白酶體                        |
| protection group                | 保護基                         |
| protective atmosphere           | 保護蒙氣                        |
| protective coating              | 保護性包覆                       |

|  |                      |
|--|----------------------|
| protective colloid                         | 保護膠體                 |
| protective film                            | 保護膜                  |
| protective micelle                         | 保護性微胞                |
| protein                                    | 蛋白質                  |
| protein chip                               | 蛋白質晶片                |
| proteinase                                 | 蛋白酶                  |
| proteinoid                                 | 類蛋白質                 |
| proteoglycans                              | 蛋白多醣                 |
| Pro-Test                                   | 普羅試驗                 |
| protium                                    | 氕                    |
| proton                                     | 質子                   |
| proton conducting membrane                 | 質子傳導膜 { 聚合物電解質燃料電池 } |
| proton decoupling                          | 質子去耦合                |
| proton dipolar decoupling                  | 質子偶極去耦合              |
| proton exchange membrane (PEM)             | 質子交換膜                |
| proton exchange membrane fuel cell (PEMFC) | 質子交換膜燃料電池            |
| proton magnetic resonance                  | 質磁共振                 |
| protonation                                | 質子化                  |
| protonic conduction                        | 質子傳導                 |
| protopectin                                | 原果膠                  |
| protopectinase                             | 原果膠酶                 |
| protoplast                                 | 原生質體                 |
| prototype                                  | 原器；原型；雛型；主型          |
| proximal probe technique                   | 近端探針技術               |
| proximate analysis                         | 近似分析                 |
| proximity effect                           | 近端效應                 |
| pseudo                                     | 擬；準；假                |
| pseudo carburizing                         | 擬滲碳                  |
| pseudo nitriding                           | 擬氮化                  |
| pseudo-binary diagram                      | 擬二元平衡圖               |
| pseudo-capacitor                           | 擬電容器                 |

|                                  |                 |
|----------------------------------|-----------------|
| pseudo-graphite                  | 賸石墨             |
| pseudo-Kondo model               | 擬近藤模型           |
| pseudomorphism                   | 擬形；假形           |
| pseudoplastic behavior           | 擬塑性行為；準塑性行為     |
| pseudoplastic fluid              | 擬塑性流體           |
| pseudoplasticity                 | 假塑性             |
| pseudopotential                  | 擬[態]位能          |
| pseudo-splitting                 | 擬分裂             |
| P-S-N curve                      | P-S-N 曲線 { 疲勞 } |
| psychrometer                     | 乾溼計；溼度計         |
| psychrometric chart              | 溼度圖             |
| psychrometry                     | 溫差定溼法           |
| p-type semiconducting oxide      | P 型半導體氧化物       |
| p-type semiconducting oxide film | P 型半導體氧化膜       |
| p-type semiconductor             | P 型半導體          |
| puddle                           | 金屬小池 { 氣錒時所形成 } |
| puddled iron                     | 攪煉鐵             |
| puddled steel                    | 攪煉鋼             |
| puddling furnace                 | 攪煉爐             |
| puddling process                 | 攪煉法             |
| puffed compact                   | 脹大壓胚            |
| pug                              | 捏合              |
| pull                             | 拉製量             |
| pull crack                       | 拉裂痕             |
| pulp                             | 紙漿              |
| pulping                          | 打漿；製漿           |
| pulsating stress                 | 脈動應力            |
| pulse annealing                  | 脈動退火；間歇退火       |
| pulse arc welding                | 脈動電弧熔接          |
| pulse delay technique            | 脈衝延遲技術          |
| pulse transformer                | 脈衝變壓器           |
| pulse width modulation           | 脈衝寬度調變          |



|                               |                    |
|-------------------------------|--------------------|
| pulsed heating                | 脈衝型加熱              |
| pulsed laser deposition (PLD) | 脈衝式雷射沉積            |
| pulsed laser synthesis        | 脈衝[式]雷射合成          |
| pulverization                 | 磨粉                 |
| pulverized coal               | 粉煤                 |
| pulverized coal               | 粉化燃煤               |
| pulverized fuel               | 磨碎燃料               |
| pulverized fuel ash           | 粉煤灰                |
| pump                          | 泵；幫浦               |
| pump fluid                    | 幫浦流體               |
| pumping                       | 泵取                 |
| punch                         | 衝頭                 |
| punch press                   | 衝壓機                |
| punch slide                   | 衝頭滑塊               |
| punch test                    | 衝擊試驗               |
| punchability                  | 衝孔性                |
| punching                      | 衝孔                 |
| puncture testing              | 刺孔試驗               |
| punty                         | 鐵桿                 |
| pure iron                     | 純鐵                 |
| pure metal                    | 純金屬                |
| purging gas                   | 滌洗氣                |
| purification                  | 純化                 |
| purine                        | 嘌呤                 |
| purine base                   | 嘌呤碱                |
| purity                        | 純度                 |
| Purnell quenching process     | 卜耐爾淬火法             |
| puron                         | 標鐵 { 99.999%純鐵材料 } |
| purple of cassius             | 紫金                 |
| purpling                      | 變紫                 |
| pusher furnace                | 推式爐                |
| push-through die              | 推穿模                |
| putty                         | 油灰                 |

|                                  |   |
|----------------------------------|---|
| puzzolan                         | 火山灰                                       |
| puzzolan cement                  | 火山灰水泥                                     |
| pycnometer                       | 比重瓶；比重計                                   |
| pylumin                          | 普路明法 { 輕合金之一種鉻酸鹽表面處理法 }                   |
| pyramidal system                 | 四面錐體系                                     |
| pyrasteel                        | 派拉鋼 { 35%Ni · 20%Cr }                     |
| Pyrex glass                      | 派瑞克斯玻璃                                    |
| pyrite                           | 黃鐵礦                                       |
| pyritic cinder                   | 黃鐵礦熔渣                                     |
| pyro conversion                  | 焦化轉換；熱裂解                                  |
| pyrocellulose                    | 焦纖維素                                      |
| pyroceram                        | 焦陶；焦陶玻璃；火玻璃                               |
| pyrochlore oxide                 | 焦綠石相氧化物                                   |
| pyrodextrin                      | 焦糊精                                       |
| pyroelectric ceramics            | 焦電陶瓷                                      |
| pyroelectricity                  | 焦電性                                       |
| pyro-electricity                 | [焦]熱電性                                    |
| pyrolusite                       | 軟錳礦                                       |
| pyrolysis                        | 熱裂解；熱解；高溫分解；熱分解                           |
| pyrolytic carbon (PyC)           | 熱裂解碳                                      |
| pyrolytic coating                | 熱解塗層                                      |
| pyrolytic graphite               | 熱解石墨                                      |
| pyrometallurgy                   | 高溫冶金學                                     |
| pyrometer                        | 高溫計                                       |
| pyrometric cone                  | 示溫熔錐；示溫錐                                  |
| pyrometric cone equivalent (PCE) | 示溫錐當量                                     |
| pyrometry                        | 高溫測量學                                     |
| pyrophoric alloy                 | 火石合金 { 含 85%Ce · 15%Mg 或含 60%Ce · 40%Fe } |
| pyrophoric property              | 自燃性質                                      |
| pyrophyllite                     | 葉蠟石                                       |
| pyroplastic deformation          | 高溫塑性變形                                    |

|              |             |
|--------------|-------------|
| pyroscope    | 示溫具         |
| pyrosilicate | 焦矽酸鹽        |
| pyroxene     | 輝石類礦物       |
| pyroxylin    | 火綿膠；硝基纖維素溶液 |
| pyrrhotite   | 磁黃鐵礦        |

# Q

|                                      |              |
|--------------------------------------|--------------|
| Q-alloy                              | Q 合金 { 鎳鉻鋼 } |
| Q-BOP process                        | Q-BOP 煉鋼法    |
| quadrupole frequency                 | 四極頻率         |
| quadrupole moment                    | 四極矩          |
| quadrupole                           | 四極           |
| quality control                      | 品質控制         |
| Quality factor (Q factor)            | 品質因子         |
| quality standard                     | 品質標準         |
| quantification                       | 量化           |
| quantitative nanoanalysis            | 定量奈米分析       |
| quantization                         | 量子化          |
| quantum                              | 量子           |
| quantum behavior                     | 量子行為         |
| quantum bit (qubit)                  | 量子位元         |
| quantum box                          | 量子箱          |
| quantum cellular automata (QCA)      | 量子元胞自動器      |
| quantum computer                     | 量子電腦         |
| quantum computing                    | 量子計算         |
| quantum confined Stark effect (QCSE) | 量子局限斯塔克效應    |
| quantum confinement effect           | 量子侷限效應       |
| quantum corral                       | 量子圍欄         |
| quantum cryptography                 | 量子密碼術；量子密碼學  |
| quantum device                       | 量子元件         |
| quantum dot (QD)                     | 量子點          |
| quantum dot blockade                 | 量子點阻障        |
| quantum dot laser                    | 量子點雷射        |
| quantum effect                       | 量子效應         |
| quantum entanglement                 | 量子纏結現象       |
| quantum Hall effect                  | 量子霍爾效應       |
| quantum mechanics                    | 量子力學         |
| quantum mirage                       | 量子幻象；量子幻影    |

|  |             |
|--|-------------|
| quantum number                           | 量子數         |
| quantum optical device                   | 量子光學元件      |
| quantum physics                          | 量子物理學       |
| quantum size effect                      | 量子尺寸效應      |
| quantum transition                       | 量子躍遷        |
| quantum tunneling                        | 量子穿隧        |
| quantum well (QW)                        | 量子井         |
| quantum wire                             | 量子線         |
| quantum yield                            | 量子產率        |
| quantum-dot quantum-well heterostructure | 量子點-量子井異質結構 |
| quarry                                   | 採石場         |
| quarry tile                              | 地石；地磚       |
| quarter-hard cold work                   | 四分之一硬級冷加工   |
| quartering                               | 四分法         |
| quaternary alloy steel                   | 四元合金鋼       |
| quartz                                   | 石英          |
| quartz crystal microbalance (QCM)        | 石英晶體微[量]天平  |
| quartz fibre                             | 石英纖維        |
| quartz glass                             | 石英玻璃        |
| quartz sand                              | 石英砂         |
| quartzite                                | 石英岩；石英石     |
| quasi particle                           | 準粒子         |
| quasi state                              | 準狀態         |
| quasi-classical method                   | 準古典方法       |
| quasicrystalline                         | 準晶          |
| quasielastic peak                        | 準彈性峰        |
| quasi-phase matching                     | 準相位匹配       |
| quasireversible condition                | 準可逆條件       |
| qubit                                    | 量子位元        |
| quench ageing                            | 淬火時效        |
| quench and fracture test                 | 淬火破裂試驗      |
| quench crack                             | 淬裂          |
| quench delay                             | 淬火延遲期       |

|                                |             |
|--------------------------------|-------------|
| quench hardening               | 淬火硬化        |
| quench softening               | 急冷軟化        |
| quench tempering               | 急冷回火        |
| quench-annealing               | 淬火韌化        |
| quenched sorbite               | 淬火糙斑體       |
| quenched steel bar             | 淬火鋼棒        |
| quenched troosite              | 淬火吐粒散體      |
| quenching                      | 淬火；淬冷；；驟冷   |
| quenching bath                 | 淬火槽         |
| quenching crack                | 淬裂；淬火裂痕     |
| quenching crack susceptibility | 淬裂敏感性       |
| quenching diagram              | 淬火轉變圖；淬火變態圖 |
| quenching liquid               | 淬火液         |
| quenching media                | 淬火媒質；淬火液    |
| quenching oil                  | 淬火油         |
| quenching pit                  | 淬火坑         |
| quenching strain               | 粹火應變        |
| quenching stress               | 粹火應力        |
| quenching temperature          | 淬火溫度        |
| quenchometer                   | 淬火計；冷速測定儀   |
| quick malleable iron           | 迅速可鍛鑄鐵      |
| quicking                       | 浸汞法         |
| quicklime                      | 生石灰         |
| quick-silver                   | 汞；水銀        |
| quiescent                      | 靜沉          |
| quiescent pouring              | 靜澆注         |
| R.D. rigid butt-joint test     | R.D.穩固對接試驗  |

# R

|   |                     |
|---|---------------------|
| rabbling                                    | 攪拌法                 |
| rablait                                     | 照射梭                 |
| race  | 座圈 { 鋼珠軸承 }         |
| racemic mixture                             | 消旋混合物               |
| rad   | 雷得 { 輻射線吸收劑量單位 }    |
| Radenthin process                           | 電登森法 { 用碳自氧化鎂中還原鎂 } |
| radial brick                                | 輻形磚                 |
| radial crushing strength                    | 徑向壓碎強度              |
| radial distribution function                | 徑向分布函數              |
| radial instability                          | 徑向不穩度               |
| radial-draw forming                         | 徑拉成形法               |
| radiant arc furnace                         | 輻射電弧爐               |
| radiant heat                                | 輻射熱                 |
| radiant heat gain                           | 輻射熱增益               |
| radiated pyrite                             | 輻射黃鐵礦               |
| radiation                                   | 輻射；放射               |
| radiation chemical synthesis                | 輻射化學合成法             |
| radiation damage                            | 輻射損傷；放射損傷           |
| radiation damping                           | 輻射制振                |
| radiation effect                            | 放射效應                |
| radiation hardening                         | 輻射硬化；放射硬化           |
| radiation pyrometer                         | 輻射高溫計               |
| radiation sterilization                     | 放射滅菌                |
| radiation-induced desorption                | 輻射誘發脫附              |
| radiation-induced disordering               | 輻射誘發不規律現象           |
| radiation-initiated cationic polymerization | 輻射起始陽離子聚合           |
| radical quencher                            | 自由基淬滅劑              |
| radiant heat transfer                       | 輻射熱傳遞               |
| radio carbon                                | 放射碳                 |
| radio chemistry                             | 放射化學                |

|                             |                      |
|-----------------------------|----------------------|
| radio lead                  | 放射鉛                  |
| radio phosphorus            | 放射磷                  |
| radio sodium                | 放射鈉                  |
| radioactivation analysis    | 放射活化分析               |
| radioactive contamination   | 放射污染                 |
| radioactive decay           | 放射衰變                 |
| radioactive isotope         | 輻射性同位素               |
| radioactive labeling        | 輻射性標誌                |
| radioactive mesothorium     | 放射性變性釷               |
| radioactive source          | 放射源                  |
| radioactive tracer          | 放射示劑                 |
| radioactive tracing         | 放射追蹤法                |
| radioactive waste           | 放射性廢料                |
| radioactive waste disposal  | 放射性廢料棄置              |
| radioactivity               | 放射性                  |
| radiochemical               | 輻射化學品                |
| radio-frequency heating     | 射頻加熱                 |
| radiography                 | 透視照相法                |
| radiology                   | 輻射學                  |
| radiolysis                  | 輻射分解；放射化學反應          |
| radiometallurgy             | 放射冶金學                |
| radiometer                  | 輻射計                  |
| radio-thorium               | 輻射釷                  |
| radium (Ra)                 | 鐳                    |
| radius of gyration          | 迴旋半徑；迴轉半徑；旋轉半徑       |
| radon (Rn)                  | 氡 { 為鐳衰變時衍生之一種無色氣體 } |
| radradiation absorbed doses | 輻射線吸收劑量              |
| rag                         | 飛邊 { 金屬粗刻邊 }；破布      |
| rail                        | 軌條；軌                 |
| rail mill                   | 軋軌機                  |
| rail press                  | 軌條壓機                 |

|                                    |               |
|------------------------------------|---------------|
| rail steel                         | 軌條鋼           |
| Raleigh's criterion                | 羅利準則          |
| ram                                | 撞鎚；溜塊；衝擊；注塞   |
| ram extrusion                      | 注塞擠壓          |
| Raman microscopy                   | 拉曼顯微術         |
| Raman scattering                   | 拉曼散射          |
| Raman spectra                      | 拉曼光譜          |
| Raman spectroscopy                 | 拉曼光譜術         |
| ramie                              | 苧麻            |
| ramming                            | 搗粉成塊法；鎚擊；搗緊   |
| ramming material                   | 鎚結料           |
| random access memory (RAM)         | 隨機存取記憶體       |
| random anisotropy                  | 隨機異向性         |
| random bond cluster                | 隨機鍵結團簇        |
| random bond model                  | 隨機鍵結模型        |
| random close packing               | 隨機最密堆積        |
| random closed pairing              | 隨機封閉配對        |
| random coil                        | 無規則線圈         |
| random crosslinking                | 隨機交聯          |
| random noise                       | 隨機雜訊          |
| random orientation                 | 雜亂指向          |
| random pairing                     | 隨機配對          |
| random solid solution              | 雜亂固溶體         |
| random walk                        | 隨機移動          |
| randomness                         | 隨意；不可測性       |
| random-walk diffusion              | 隨機擴散          |
| Rankine cycle                      | 朗肯循環          |
| rapeseed oil                       | 菜籽油           |
| rapid fatigue test                 | 快速疲勞試驗        |
| rapid setting                      | 快凝性；快凝劑       |
| rapid solidification process (RSP) | 快速凝固製程；快速固化製程 |
| rapid steel                        | 高速鋼           |

|                                   |                |
|-----------------------------------|----------------|
| rapid thermal decomposition (RTD) | 快速熱分解          |
| rapid-hardening portland cement   | 快硬波特蘭水泥        |
| rapping                           | 拔模             |
| rare earth                        | 稀土元素           |
| rare earth alloy                  | 稀土元素合金         |
| rare earth metal                  | 稀土金屬           |
| rare gas                          | 稀有氣體           |
| rare gas nanocluster              | 稀有氣體奈米團簇       |
| Raschig ring                      | 拉西環            |
| rat tail                          | 剝沙痕 { 鑄疵 }     |
| rate constant                     | 速率常數           |
| rate equation                     | 速率方程式          |
| rate of freezing                  | 冷卻速率           |
| rate of loading                   | 荷重增加率 { 材料試驗 } |
| rate of nucleation                | 成核率            |
| rate of viscous flow              | 黏滯流動速率         |
| rational analysis                 | 示性分析           |
| raw glaze                         | 生料釉            |
| raw material                      | 原料             |
| raw ore                           | 原礦砂            |
| raw sienna                        | 富鐵黃土           |
| Rayleigh approximation            | 瑞立近似法          |
| Rayleigh relation                 | 瑞利關係式          |
| Rayleigh scattering               | 瑞賴散射           |
| Rayleigh-Abbe diffraction limit   | 瑞立-阿貝繞射極限      |
| Rayleigh-Debye-Ganz approximation | 瑞立-德拜-甘茲近似法    |
| Rayleigh-Gans theory              | 瑞立-甘斯理論        |
| rayon                             | 縲綮             |
| razor steel                       | 刀片鋼            |
| reactant                          | 反應物            |
| reaction                          | 反應             |
| reaction sequence                 | 反應次序           |

|                               |                  |
|-------------------------------|------------------|
| reaction-limited aggregation  | 反應限制聚集           |
| reaction-overvoltage          | 反應過電壓            |
| reactive impurity             | 反應性不純物           |
| reactive ion etching (RIE)    | 反應[性]離子蝕刻        |
| reactive magnetron sputtering | 反應[性]磁控濺鍍        |
| reactive power                | 虛功率              |
| reactive sputter deposition   | 反應[性]濺鍍沉積        |
| reactive synthesis            | 反應[性]合成          |
| reactivity                    | 反應性              |
| reactor                       | 反應器              |
| ready mixed concrete          | 預拌混凝土            |
| reagent                       | 試藥               |
| ream                          | 斑紋               |
| reboil                        | 再沸               |
| rebound hardness              | 反跳硬度             |
| rebound test                  | 反跳試驗             |
| recalescence                  | 再輝               |
| recalescence point            | 再輝點              |
| recarburizer                  | 增碳劑              |
| receptor                      | 受體               |
| receptor-ligand docking       | 受體-配體對接；受體-配體嵌合  |
| receptor-mediated endocytosis | 接受者轉介內噬作用        |
| rechargeable battery          | 充電電池；二次電池        |
| reciprocal lattice            | 倒置晶格；反置晶格；倒數指標晶格 |
| reciprocal lattice point      | 倒數指標晶格點          |
| reciprocal lattice vector     | 倒數指標晶格向量         |
| reciprocal space              | 倒[置]空間           |
| reciprocating compressor      | 往復式壓縮機           |
| reciprocating mold            | 往復模具             |
| reclaim                       | 再生               |
| reclaimator process           | 再生製程             |

|                               |                  |
|-------------------------------|------------------|
| reclaimed rubber              | 再生橡膠             |
| reclaiming                    | 再生               |
| recombination                 | 再結合              |
| recombination center          | 復合中心             |
| reconstituted collagen        | 重組膠原蛋白           |
| recorder mastering            | 記錄器母版            |
| recovery                      | 復原；回收            |
| recovery process              | 回復過程             |
| recrystallization             | 再結晶              |
| recrystallization temperature | 再結晶溫度            |
| recrystallization texture     | 再結晶織構            |
| rectangular kiln              | 長方窯              |
| rectangular lattice           | 長方型晶格            |
| rectifier diode               | 整流器二極體           |
| recuperation                  | 熱交換；熱回收          |
| recuperation heat             | 蓄熱               |
| recuperator                   | 復熱器；熱回收器         |
| red brass                     | 紅黃銅              |
| red clay                      | 紅黏土              |
| red gum accroide              | 紅禾木膠             |
| red hardness                  | 赤熱硬度             |
| red iron ore                  | 赤鐵礦              |
| red lead                      | 鉛丹 { $Pb_3O_4$ } |
| red mud                       | 紅泥 { 鍊鋁副產品 }     |
| red shift                     | 紅位移              |
| red shortness                 | 紅熱脆性             |
| reddle                        | 赭鐵礦；紅丹油          |
| redispersible powder          | 可再分散粉體；可再分散粉末    |
| redistribution of solute      | 溶質重新分佈           |
| redox catalyst                | 氧化還原觸媒           |
| redox chromophore             | 氧化還原發色團          |
| redox flow cell               | 氧化還原液流電池         |
| redox probe                   | 氧化還原探針           |

|                           |                             |
|---------------------------|-----------------------------|
| redox reaction            | 氧還反應                        |
| redox-catalyst            | 氧化還原催化劑                     |
| redox-potential           | 氧化還原電位                      |
| redrawing                 | 再伸延                         |
| reduced metal powder      | 還原金屬粉                       |
| reduced viscosity         | 比濃黏度                        |
| reducing                  | 還原                          |
| reducing agent            | 還原劑                         |
| reducing atmosphere       | 還原蒙氣                        |
| reducing atomosphere      | 還原氣氛                        |
| reducing extrusion        | 減縮擠製                        |
| reducing mill             | 減縮軋機                        |
| reducing period           | 還原期                         |
| reducing roasting         | 還原焙燒                        |
| reducing slag             | 還原渣                         |
| reductant                 | 還原物；還原劑                     |
| reduction                 | 還原；減縮                       |
| reduction bomb            | 還原鋼罐                        |
| reduction of area         | 面積縮小                        |
| reduction of process      | 還原過程                        |
| reduction ratio in area   | 斷面縮率                        |
| reduction reaction        | 還原反應                        |
| reductive titration curve | 還原滴定曲線                      |
| Redux bonding             | 雷達克斯接合法 { 金屬與塑膠黏接之一種專利黏接法 } |
| reel                      | 捲盤                          |
| Reeve test                | 瑞夫試驗 { 熔接 }                 |
| reference cluster         | 參考團簇                        |
| reference electrode       | 參考電極                        |
| refine                    | 精煉                          |
| refined iron              | 精煉鐵                         |
| refined steel             | 精煉鋼                         |
| refinement                | 精煉                          |
| refinery corrosion        | 石油精煉工廠腐蝕                    |

|   |                    |
|---|--------------------|
| refining  | 精製；精煉；純化           |
| reflectance   | 反射比[率] { 受幾何形體影響 } |
| reflecting furnace                                  | 反射爐                |
| reflection  | 反射                 |
| reflection coefficient                              | 反射係數               |
| reflection diffractometer                           | 反射繞射儀              |
| reflection electron microscopy                      | 反射電子顯微術            |
| reflection high energy electron diffraction (RHEED) | 反射高能電子繞射           |
| reflectivity  | 反射率                |
| reflector lamp                                      | 反光燈                |
| reformer  | 重組器                |
| reforming   | 重組反應               |
| reforming process                                   | 重組過程               |
| refraction  | 折射                 |
| refraction index                                    | 折射率                |
| refractive index                                    | 折射係數；折射率           |
| refractivity  | 折射率                |
| refractoriness                                      | 耐火性；耐火度            |
| refractoriness underload                            | 載重耐火度              |
| refractory  | 耐火材；耐火物            |
| refractory alloy                                    | 耐火合金               |
| refractory brick                                    | 耐火磚                |
| refractory cement                                   | 耐火水泥               |
| refractory ceramic coating                          | 耐火陶瓷護膜             |
| refractory coating                                  | 耐火塗料               |
| refractory concrete                                 | 耐火混凝土              |
| refractory material                                 | 耐火材料               |
| refractory metal                                    | 耐火金屬               |
| refrax  | 金鋼砂磚               |
| refrigerated air dryer                              | 冷凍空氣乾燥機            |
| refrigerated compressed air dryer                   | 冷凍空氣壓縮乾燥機          |
| regenerated cellulose                               | 再生纖維素              |



|                                |                 |
|--------------------------------|-----------------|
| regeneration                   | 再生              |
| regeneration heat              | 再生熱             |
| regenerative cell              | 再生型電池           |
| regenerative chamber           | 蓄熱室             |
| regenerative fuel cell         | 再生型燃料電池         |
| regenerative quenching         | 再生淬火            |
| regenerative reformer          | 再生型重組器          |
| regenerator                    | 蓄熱室；蓄熱器；回熱器；再生器 |
| regular solution               | 規則溶液            |
| regulator                      | 調節器             |
| regulus                        | 粗製金屬錠           |
| reheat test                    | 再熱試驗            |
| reheating furnace              | 再熱爐             |
| rehybridization                | 再混成             |
| reinforced brickwork           | 加強磚工            |
| reinforced concrete            | 鋼筋混凝土           |
| reinforcement efficiency       | 強化效率            |
| reinforcing fiber              | 強化纖維            |
| relative consistency           | 相對稠度            |
| relative humidity              | 相對溼度            |
| relative magnetic permeability | 相對導磁率           |
| relative viscosity             | 相對黏度            |
| relative water content         | 相對含水量           |
| relaxation emission            | 弛緩發射            |
| relaxation internal friction   | 鬆弛內耗            |
| relaxation property            | 鬆弛性質            |
| relaxation time                | 鬆弛時間            |
| relaxed elastic modulus        | 遲滯彈性模數          |
| relaxed vacancy diffusion      | 鬆弛空孔擴散          |
| release agent                  | 脫模劑             |
| relief annealing               | 弛力退火            |
| relieving arch                 | 肋拱              |

|                         |  |
|-------------------------|--|
| reluctance              | 磁阻   |
| reluctivity             | 磁阻率  |
| rely alloys             | 瑞力合金 { 含 10-16%Sb · 1-6%Cu 之一系列鉛基或錫基軸承合金 } |
| remagnetizing           | 重磁化  |
| remalloy                | 力馬磁鐵合金 { 含 12%Mo 其餘 Fe 之一種永久磁鐵合金 }         |
| remanence               | 殘留磁性；頑磁性；保磁率                               |
| remanent induction      | 殘存感應                                       |
| remelting               | 再熔解  |
| remelting furnace       | 再熔爐  |
| remolding test          | 重塑試驗                                       |
| rennet                  | 凝乳酵素                                       |
| rennin                  | 凝乳酶  |
| renormalized atom level | 再重整原子階                                     |
| repeated stress         | 覆變應力                                       |
| replacement             | 替代物  |
| replica                 | 摹製品；複印模                                    |
| repressing              | 再壓[型]                                      |
| reprocessing            | 再處理；再加工                                    |
| reproductive toxicity   | 生殖毒性                                       |
| reserve battery design  | 蓄電池設計                                      |
| residence time          | 停留時間                                       |
| residual cementite      | 殘留雪明碳體                                     |
| residual clay           | 殘餘黏土                                       |
| residual contaminant    | 殘留污染物                                      |
| residual element        | 殘留元素                                       |
| residual pearlite       | 殘留波來體                                      |
| residual porosity       | 殘留孔隙度                                      |
| residual strain         | 殘留應變                                       |
| residual stress         | 殘留應力                                       |
| resilience              | 彈回；恢復力；彈性能                                 |
| resiliency              | 彈性能  |

|                           |                                      |
|---------------------------|--------------------------------------|
| resilient flooring        | 回彈底限                                 |
| resin                     | 樹脂                                   |
| resin binder              | 樹脂黏結劑                                |
| resin coated sand         | 樹脂裹貼砂                                |
| resin sand                | 樹脂砂                                  |
| resin vehicles            | 樹脂油漆基                                |
| resinate                  | 樹脂酸鹽                                 |
| resinking                 | 再製型 { 鍛模 }                           |
| resist                    | 防鍍漆 ; [光]阻劑                          |
| resist process            | 光阻製程                                 |
| resist structure          | 光阻結構                                 |
| resistal                  | 高耐力鋁青銅 { 含 9-10%Al · 1-2%Fe 之一種鋁青銅 } |
| resistance annealing      | 電阻退火                                 |
| resistance heating        | 電阻加熱法                                |
| resistance measurement    | 電阻量測                                 |
| resistance welding        | 電阻熔接                                 |
| resistance-overvoltage    | 電阻-過電壓                               |
| resistin                  | 高電阻錳銅合金 { 含 85%Cu · 1-2%Mn · 2%Fe }  |
| resistivity               | 電阻率 ; 電阻係數                           |
| resite                    | 不溶酚醛樹脂                               |
| resitol                   | 半溶酚醛樹脂                               |
| resole                    | 可溶酚醛樹脂                               |
| resolution                | 解析度 ; 解像能力                           |
| resolution limit          | 解析極限                                 |
| resolvent                 | 分解物                                  |
| resolving power           | 解析能力 ; 解像能力                          |
| resonance                 | 共振 ; 共鳴                              |
| resonance bonding         | 共振結合鍵                                |
| resonance curve           | 共振曲線                                 |
| resonance peak            | 共振峰                                  |
| resonance relation        | 共振關係                                 |
| resonant tunneling device | 共振穿隧元件                               |

|                                     |              |
|-------------------------------------|--------------|
| resonant tunneling transistor (RTT) | 共振穿隧電晶體      |
| resonator                           | 共振器          |
| resorbable                          | 可吸收的         |
| responsivity                        | 回應性 ; 回應度    |
| rest period                         | 中止期          |
| restorative dental material         | 牙科補綴材料       |
| restriking                          | 矯鍛           |
| resulfurized steel                  | 再硫化鋼         |
| retained austenite                  | 殘留沃斯田鐵       |
| retardation                         | 阻滯           |
| retarder                            | 阻滯劑          |
| retempering                         | 再回火 ; 再拌合    |
| retentivity                         | 頑磁性 ; 保磁率    |
| reticulated foam                    | 網狀泡沫材料       |
| reticulation                        | 網狀組織         |
| reticulin fibril                    | 網狀原纖維        |
| retinal                             | 視網膜          |
| retort                              | 甑 ; 蒸餾器      |
| retractile fiber                    | 回縮纖維         |
| retrogression                       | 退回現象         |
| retting                             | 洗麻 ; 泡麻 ; 漚麻 |
| return                              | 回爐料          |
| return die                          | 退回模          |
| reverberatory furnace               | 反射爐          |
| reversal of current                 | 反向電流         |
| reverse bias                        | 逆向偏壓         |
| reverse evaporation                 | 逆向蒸發[法]      |
| reverse flow forging                | 逆流鍛造法        |
| reverse osmosis                     | 逆滲透          |
| reverse polarity                    | 反極性          |
| reverse redrawing                   | 逆向再伸延        |
| reversed magnetization              | 反向磁化         |
| reversed stress                     | 逆應力          |

|                           |                  |
|---------------------------|------------------|
| reversed stress cycle     | 反向應力週期 { 疲勞 }    |
| reversibility             | 可逆性              |
| reversible adsorbent      | 可逆性吸附物           |
| reversible cell           | 可逆電池             |
| reversible cell potential | 可逆電池電位           |
| reversible deformation    | 可逆變形             |
| reversible insert         | 雙面嵌件             |
| reversible process        | 可逆反應             |
| reversible reaction       | 可逆反應             |
| reversible voltage        | 可逆電壓             |
| reversing mill            | 可逆軋機             |
| revolver press            | 旋壓機              |
| revolving pot             | 迴轉罐              |
| revolving screen          | 迴轉篩              |
| Rex 78                    | Rex78 耐熱鋼        |
| Reynolds number           | 雷諾數              |
| rf sputtering             | 射頻濺鍍             |
| RGD peptide               | RGD 胜肽           |
| RH degassing process      | RH 去氣法 { 真空去氣法 } |
| rhenium (Re)              | 銻                |
| rheocasting               | 流變澆注             |
| rheological behavior      | 流變行為             |
| rheological property      | 流變性質             |
| rheology                  | 流變學; 流性學         |
| rheometer                 | 流變儀              |
| rheopexy                  | 流變增黏性            |
| Rhigi-Leduc effect        | 黎-雷氏[熱電]效應       |
| rhodium (Rh)              | 銻                |
| rhombic system            | 斜方晶系             |
| rhombohedral              | 斜方六面體            |
| rhombohedral system       | 斜方六面體晶系          |
| rib                       | 肋                |
| ribbed roof               | 肋頂               |

|   |                    |
|---|--------------------|
| ribbed substrate design                       | 排列式基板設計 { 磷酸燃料電池 } |
| ribbing                                       | 起脊                 |
| ribbon  | 條帶                 |
| ribonucleic acid (RNA)                        | 核糖核酸               |
| ribozyme                                      | 核酶; RNA 類酶; 核糖酵素   |
| rich mix                                      | 富配合                |
| Richard Phillips Feynman                      | 理查費曼               |
| richness of mix                               | 配合濃度               |
| rider brick                                   | 鞍磚; 鞍拱             |
| ridge tile                                    | 脊瓦                 |
| rift  | 順紋裂痕               |
| right lay                                     | 右旋絞紋               |
| right-handed quartz                           | 右旋水晶; 右旋石英         |
| rigid band model                              | 剛性[能]帶模型           |
| rigid beam vibration                          | 剛性樑震動              |
| rigid body relaxation                         | 剛性體鬆弛              |
| rigid ion model                               | 剛性離子模型             |
| rigid molecule                                | 剛性分子               |
| rigidity                                      | 剛性                 |
| rigidity modulus                              | 剛性模數               |
| rimmed steel                                  | 未淨鋼; 淨面鋼           |
| ring  | 浮圈; 環; 匣鉢圈         |
| ring and ball method                          | 圈球法                |
| ring diffusion                                | 環路擴散               |
| ring forging                                  | 環鍛造                |
| ring kiln                                     | 輪窯                 |
| ring rolling                                  | 車環軋                |
| ring-opening metathesis polymerization (ROMP) | 開環置換聚合反應           |
| ringworm corrosion                            | 輪癬狀腐蝕              |
| ripening                                      | 熟化                 |
| rise  | 拱高                 |
| riser   | 冒口                 |

|                               |                              |
|-------------------------------|------------------------------|
| rivet                         | 鉚釘                           |
| road tar                      | 路用柏油                         |
| roasting                      | 焙燒                           |
| roast-sintering               | 焙燒-燒結                        |
| Robber                        | 羅婆片 { 降低電流密度之額外陰極 }          |
| Robertson test                | 羅卜遜試驗 { 鋼之脆裂習性試驗 }           |
| rock crystal                  | 水晶                           |
| rock salt                     | 岩鹽                           |
| rock salt structure           | 岩鹽結構 ; 氯化鈉結構                 |
| rock salt structure           | 岩鹽結構                         |
| rock wool                     | 岩絨                           |
| rocket                        | 火箭                           |
| rocket nozzle                 | 火箭噴嘴                         |
| rocketry                      | 火箭學                          |
| Rockwell hardness             | 洛氏硬度                         |
| Rockwell hardness test        | 洛氏硬度試驗                       |
| rod                           | 桿料                           |
| rod drop hammer               | 桿落錘                          |
| rod hammer                    | 桿錘                           |
| rod mill                      | 桿磨 ; 桿料軋機 ; 線材軋機 ; 棒磨機       |
| Roentgen                      | 侖琴                           |
| roentgen equivalent man (rem) | 人體侖琴當量 ; 侖目 { 測量人體吸收輻射量之單位 } |
| roke                          | 氧化物斜夾層                       |
| roll                          | 軋輥 ; 棍筒                      |
| roll die                      | 滾筒模                          |
| roll bending                  | 輥彎 ; 捲板機                     |
| roll bonding                  | 輥壓貼合                         |
| roll coating                  | 輥塗 ; 輥鍍                      |
| roll compection               | 軋壓 ; 壓胚                      |
| roll crown                    | 輥頂                           |
| roll crusher                  | 輥碎機                          |
| roll deflection               | 輥偏轉                          |

|                       |              |
|-----------------------|--------------|
| roll forging          | 軋機鍛造         |
| roll forging machine  | 軋鍛機          |
| roll straightening    | 輥筒矯直 ; 輥子矯直  |
| roll table            | 輥台           |
| roll threading        | 滾製螺紋         |
| roll welding          | 滾動熔接         |
| rolled glass          | 輥製玻璃         |
| rolled gold           | 輥軋製金         |
| rolled hardening      | 輥軋硬化         |
| rolled iron           | 軋製鐵          |
| rolled product        | 輥軋製品         |
| rolled steel          | 軋製鋼          |
| rolled steel wheel    | 軋製鋼輪         |
| rolled wire           | 軋製鐵絲         |
| rolled-in scale       | 軋包鏽皮         |
| roller                | 軋輥 ; 壓路機     |
| roller bearing        | 輥軸承          |
| roller coating        | 輥輪鍍層 ; 輥筒護膜  |
| roller hearth furnace | 輥膛爐          |
| roller mill           | 軋製機          |
| roller-bat machine    | 輥片機          |
| roller-head machine   | 輥頭銼坯機        |
| rolling               | 軋延           |
| rolling defect        | 輥軋缺陷         |
| rolling impression    | 滾鍛型          |
| rolling method        | 滾鍛法          |
| rolling mill          | 輥軋機          |
| rolling texture       | 輥軋織構         |
| rollover machine      | 滾轉機          |
| Roman cement          | 羅馬水泥         |
| Roman tile            | 羅馬瓦          |
| roofing tile          | 屋瓦           |
| room-dry condition    | 陰乾狀態         |
| Roots blower          | 魯氏鼓風機 ; 魯氏幫浦 |

|                             |   |
|-----------------------------|---|
| Roots pump                  | 魯氏幫浦  |
| rope                        | 繩索  |
| Rosein metal                | 洛山金屬 { 含 40%Ni · 30%Al · 10%Sn · 10%Ag 飾品用合金 }    |
| Rose's metal                | 洛斯合金 { 22%Sn · 50%Bi · 28%Pb · 低熔點金屬 110°C-96°C } |
| rosette graphite            | 菊花狀石墨   |
| rosin                       | 松香 ; 松脂   |
| rosin gum                   | 松脂膠   |
| rota-cone blender           | 轉椎摻合機   |
| rotary bending test         | 迴轉彎曲試驗  |
| rotary blood pump           | 旋轉式血液幫浦   |
| rotary crystal diffraction  | 迴轉結晶繞射  |
| rotary crystal method       | 迴轉結晶法   |
| rotary disk feeder          | 旋盤加料機   |
| rotary forging              | 迴轉鍛造  |
| rotary furnace              | 迴轉爐   |
| rotary furnace process      | 迴轉爐法  |
| rotary hearth furnace       | 轉膛爐   |
| rotary kiln                 | 旋窯 ; 迴轉窯  |
| rotary piston pump          | 迴轉活塞幫浦  |
| rotary press                | 迴轉壓機  |
| rotary pump                 | 迴轉幫浦  |
| rotary rolling              | 迴轉軋製  |
| rotary screen               | 旋篩 ; 迴轉篩  |
| rotary shearing             | 迴轉剪切  |
| rotary smelter              | 旋轉熔煉爐   |
| rotary straightening        | 迴轉矯直 ; 旋轉矯直                                       |
| rotary swaging              | 旋轉型鍛  |
| rotary vessel culture       | 旋轉容器培養  |
| rotary-hearth furnace       | 轉膛爐   |
| rotary-hearth kiln          | 轉床窯   |
| rotating bending            | 迴轉彎曲  |
| rotating wave approximation | 旋波近似值   |

|  |                      |
|--|----------------------|
| rotation                                 | 旋轉 ; 轉動              |
| rotational casting                       | 轉鑄                   |
| rotational echo double resonance (REDOR) | 旋轉回聲雙共振              |
| rotational mold                          | 旋轉模具                 |
| rotational molding                       | 旋轉模製                 |
| rotational slip                          | 旋轉滑移                 |
| rotaxane                                 | 輪軸烯                  |
| Rothberg coke oven                       | 羅士伯煉焦爐               |
| roton                                    | 旋子                   |
| rotor                                    | 轉子                   |
| rotor protein                            | 轉子蛋白質                |
| rotor steel process                      | 迴轉煉鋼法                |
| rouge                                    | 鐵紅                   |
| rouge flambe                             | 祭紅釉                  |
| rough polishing                          | 粗拋光                  |
| rough-cast                               | 輾花玻璃                 |
| roughing impression                      | 粗製型                  |
| roughing loam                            | 粗泥砂漿                 |
| roughness coefficient                    | 粗糙係數                 |
| round kiln                               | 圓窯                   |
| rowlock                                  | 立砌法                  |
| royal blue                               | 寶藍                   |
| RR alloy                                 | RR 合金 { 析出硬化鍛或鑄輕合金 } |
| rubber                                   | 橡膠                   |
| rubber reclaiming                        | 橡膠再生                 |
| rubber-diaphragm forming                 | 橡膠膜成形                |
| rubberlike elasticity                    | 橡膠狀彈性                |
| rubber-pad drawing                       | 膠墊拉延法                |
| rubber-pad forming                       | 橡膠墊成形                |
| rubber-punch forming                     | 橡膠衝成形                |
| rubbing block                            | 磨擦石                  |
| rubbing fastness                         | 耐磨擦度                 |
| rubble                                   | 塊石                   |

|  |                          |
|--|--------------------------|
| rubidium (Rb)                                      | 鉷                        |
| ruby glass   | 金紅玻璃                     |
| runner   | 流槽；熔流道；橫澆道；橫流道；動子動輪      |
| runner brick                                       | 澆道磚                      |
| rupture  | 破壞；破斷                    |
| rupture strength                                   | 破斷強度                     |
| rust   | 鏽                        |
| rustic brick                                       | 粗面磚                      |
| rustless iron                                      | 不鏽鐵                      |
| rustless steel                                     | 不鏽鋼                      |
| rustproofing oil                                   | 防鏽油                      |
| rust-spotting                                      | 鏽斑                       |
| ruthenium (Ru)                                     | 鈳                        |
| Rutherford<br>backscattering<br>spectroscopy (RBS) | 拉塞福背向散射譜術                |
| rutile   | 金紅石 { TiO <sub>2</sub> } |

# S

|                          |                            |
|--------------------------|----------------------------|
| SAC rating               | SAC 硬化能 { 表面硬度-面積中心硬度比較法 } |
| sacrificial anode        | 犧牲陽極 ; 耗蝕性陽極               |
| sacrificial protection   | 犧牲性防蝕法                     |
| sacrificial red          | 祭紅                         |
| saddle                   | 鞍座                         |
| saddle forging           | 跨鍛                         |
| saddle support           | 鞍架                         |
| safe stress              | 安全應力                       |
| safety factor            | 安全係數                       |
| safety glass             | 安全玻璃                       |
| safety lining            | 安全襯墊                       |
| safflower oil            | 紅花子油                       |
| saggar                   | 匣鉢                         |
| sagging                  | 下垂 ; 自重彎曲                  |
| salt bath                | 鹽浴                         |
| salt bath brazing        | 鹽浴硬焊                       |
| salt bath case hardening | 鹽浴表面硬化                     |
| salt bath chromizing     | 鹽浴浸鉻法                      |
| salt bath cleaning       | 鹽浴清潔法                      |
| salt bath furnace        | 鹽浴爐                        |
| salt bath heat treatment | 鹽浴熱處理                      |
| salt bridge              | 鹽橋                         |
| salt cake                | 鹽餅                         |
| salt glaze               | 鹽釉                         |
| salt patenting           | 鹽浴韌化                       |
| salt spray test          | 鹽霧試驗                       |
| saltpeter annealing      | 硝石鹽浴退火                     |
| saltpetre                | 硝石                         |
| samarium (Sm)            | 釷                          |
| sample grinder           | 試樣研磨機                      |
| sample splitter          | 試樣分割器                      |

|                      |                     |
|----------------------|---------------------|
| sampling             | 取樣                  |
| sampling spoon       | 取樣杓                 |
| sand                 | 砂                   |
| sand asphalt         | 砂拌瀝青                |
| sand bath tempering  | 砂浴回火                |
| sand bed             | 砂床                  |
| sand blast           | 噴砂處理                |
| sand blasting        | 噴砂法                 |
| sand blender         | 拌砂機                 |
| sand buckle          | 砂痂 { 鑄件表面不規則形凸起部分 } |
| sand cast iron roll  | 砂鑄鐵輥                |
| sand casting         | 砂模鑄造                |
| sand hole            | 砂眼 ; 砂孔             |
| sand kneader         | 拌砂機                 |
| sand mixer           | 混砂機                 |
| sand muller          | 混砂機 ; 鍊砂機           |
| sand reconditioning  | 砂再生處理               |
| sand seal            | 砂封                  |
| sand slinger         | 摔砂造模機               |
| sand-faced           | 砂面的                 |
| sanding              | 鋪砂磨                 |
| sand-lime brick      | 砂灰磚                 |
| sandpaper            | 砂紙                  |
| sand-stone           | 砂石                  |
| sandwich clad steel  | 夾層鋼                 |
| sandwich method      | 夾層法                 |
| sandwich rolling     | 夾層板軋軋               |
| sandwich structure   | 夾層結構                |
| sang de boeuf        | 寶石紅                 |
| sanitary earthenware | 衛生陶器                |
| sanitary landfill    | 衛生掩埋                |
| sanitaryware         | 衛生陶瓷                |
| Saniter's process    | 森尼特去硫法 { 熔化生鐵去硫 }   |

|                                 |  |
|---------------------------------|--|
| sanitizer                       | 滅菌劑；消毒劑  |
| Sankey diagram                  | 山齊熱流平衡圖  |
| saponification                  | 皂化   |
| saponite                        | 皂石；鎂膨潤石  |
| sapphire                        | 藍寶石  |
| sapwood                         | 邊材   |
| sarcomere                       | 肌原纖維節；肌小節                                      |
| Satco alloys                    | 賽特寇軸承合金 { 含 1-2.5%Sn · 0.1-0.5%Cu 之一系列鉛基軸承金屬 } |
| satin                           | 緞  |
| satin glaze                     | 緞光釉  |
| saturated acid                  | 飽和酸  |
| saturated hydrocarbon           | 飽和碳氫化合物  |
| saturated surface dry condition | 飽和表面乾度   |
| saturated vapour pressure       | 飽和蒸汽壓  |
| saturation                      | 飽和   |
| saturation coefficient          | 飽和係數   |
| saturation index                | 飽和指數   |
| saturation magnetization        | 飽和磁化   |
| saturation ratio                | 飽和比[率]   |
| Sauerbrey equation              | 薩爾布雷方程式  |
| saw                             | 鋸  |
| saw dust                        | 鋸屑   |
| saw notch                       | 鋸痕   |
| sawdust                         | 鋸屑；鋸木屑   |
| sawing                          | 鋸切   |
| scab                            | 疤  |
| scaffold                        | 鷹架；支架；懸荷結構 { 爐內襯壁燒結礦 }                         |
| scale                           | 鏽皮；垢；水垢；鏽垢；比例尺；尺；氧化層；皮層                        |
| scale forming                   | 生垢；生鏽  |
| scaling                         | 皮層氧化；起鱗皮；比例                                    |

|  |                        |
|--|------------------------|
| Scaling concept                                  | 比例概念                   |
| scandium (Sc)                                    | 釷                      |
| scanning Auger electron microscope               | 掃描型歐傑電子顯微鏡             |
| scanning Auger electron microscopy (SAM)         | 掃描型歐傑電子顯微術             |
| scanning Auger microscopy (SAM)                  | 掃描式歐傑[電子]顯微術           |
| scanning electron microscope (SEM)               | 掃描式電子顯微鏡；掃描式電鏡         |
| scanning electron microscopy (SEM)               | 掃描式電子顯微術               |
| scanning force microscope (SFM)                  | 掃描力顯微鏡                 |
| scanning force microscopy (SFM)                  | 掃描力顯微術                 |
| scanning force probe                             | 掃描力探針                  |
| scanning Maxwell stress microscope               | 掃描馬克士威應力顯微鏡 { 表面電位量測 } |
| scanning near-field microscopy                   | 掃描近場顯微術                |
| scanning near-field optical microscope           | 掃描式近場光學顯微鏡             |
| scanning near-field optical microscopy (SNOM)    | 掃描近場光學顯微術              |
| scanning probe lithography mastering             | 掃描探針石刻母版               |
| scanning probe microscopy                        | 掃描探針顯微鏡學；掃描探針顯微術       |
| scanning probe microscopy (SPM)                  | 掃描探針顯微術                |
| scanning transmission electron microscope (STEM) | 掃描穿透式電子顯微鏡；掃描穿透式電鏡     |
| scanning tunneling microscope (STM)              | 掃描穿隧顯微鏡                |
| scanning tunneling microscopy (STM)              | 掃描穿隧顯微術                |
| scanning tunneling spectroscopy (STS)            | 掃描穿隧光譜術                |
| scattering                                       | 散射                     |
| scattering amplitude                             | 散射振幅                   |
| scattering factor                                | 散射因子                   |
| scattering length                                | 散射長度                   |
| scattering loss                                  | 散射損失；散射損耗              |



|                                  |                                  |
|----------------------------------|----------------------------------|
| scattering probability           | 散射機率                             |
| scattering regime                | 散射體系                             |
| scavenger                        | 脫氧劑；清除劑                          |
| scavenging gas                   | 清掃氣                              |
| Schaeffer diagram                | 雪佛圖 { 不鏽鋼熔接時<br>熔區內鐵鎳鉻量關係<br>圖 } |
| Scheil equation                  | 薛爾公式                             |
| schematic drawing                | 示意圖                              |
| Scherrer equation                | 謝樂方程式                            |
| Scherrer formula                 | 謝樂公式                             |
| Scherzer focus                   | 謝澤聚焦                             |
| Schmid factor                    | 實密因子                             |
| Schnadt test                     | 席納特[衝擊]試驗                        |
| Schockely partial<br>dislocation | 蕭克雷部分差排                          |
| Schoenflies notation             | 向夫立符號 { 空間格子<br>數字 }             |
| Schoop process                   | 肖甫法 { 金屬噴敷法 }                    |
| Schottky defect                  | 蕭特基缺陷 { 空孔缺<br>陷 }               |
| Schottky disorder                | 蕭基缺陷                             |
| Schrodinger equation             | 薛丁格方程式                           |
| Schrödinger wave<br>equation     | 薛丁格波動方程式                         |
| Schwann cell                     | 許旺氏細胞                            |
| scintillation                    | 閃爍                               |
| scintillation counter            | 閃爍計數器                            |
| scission                         | 切斷；剪斷                            |
| sclerometer                      | 反跳硬度計                            |
| scleroscope                      | 反跳硬度計                            |
| scleroscope hardness test        | 反跳硬度試驗                           |
| scorch time                      | 焦化時間                             |
| scorification                    | 坩堝法 { 由熔化貴金屬<br>除去雜質 }           |
| Scotch kiln                      | 蘇格蘭窯                             |
| scragging                        | 預扭 { 改善彈簧疲勞<br>性 }               |
| scram rod                        | 急停桿 { 緊急中子吸收<br>控制桿 }            |

|                         |   |
|-------------------------|---|
| scrap                   | 碎片；廢料；剔退件                               |
| scrap iron              | 廢鐵                                      |
| scrap melting           | 廢鋼熔煉法                                   |
| scrap steel             | 廢鋼                                      |
| scraping                | 刮                                       |
| scrapings               | 刮料                                      |
| scraps                  | 廢坯                                      |
| scratch                 | 刮痕；刮線                                   |
| scratch hardness        | 刮痕硬度                                    |
| scratch inspection      | 刮痕檢驗                                    |
| scratch test            | 刮痕試驗 { 硬度試驗 }                           |
| screen                  | 篩；網篩；幕                                  |
| screen analysis         | 篩析；篩分析；篩目分<br>析                         |
| screen printing         | 網印；網板印刷                                 |
| screening               | 篩選；屏蔽                                   |
| screening agent         | 遮蔽劑                                     |
| screening test          | 篩分試驗；篩選試驗                               |
| screw                   | 螺旋；螺釘；螺桿                                |
| screw air compressor    | 螺旋式空壓機                                  |
| screw dislocation       | 螺旋差排                                    |
| screw displacement      | 螺旋位移                                    |
| screw extrusion         | 螺桿擠出成形；螺桿擠<br>型                         |
| screw injection-molding | 螺桿射出成形                                  |
| screw plasticator       | 螺桿塑化機                                   |
| screw preplasticator    | 螺桿預塑機                                   |
| screw press             | 螺旋壓機                                    |
| screw-feed furnace      | 螺旋進料爐                                   |
| screwing brass          | 螺絲黃銅 { 含<br>58%Cu · 2%Pb · 其餘<br>為 Zn } |
| screwless extruder      | 無螺桿擠壓機                                  |
| screw-plunger           | 螺桿活塞                                    |
| scroll model            | 卷軸模型                                    |
| scum                    | 浮霜；浮沫；浮渣                                |

|                                 |                 |
|---------------------------------|-----------------|
| scumming                        | 乏光              |
| scurf                           | 碳積              |
| S-curve                         | S 曲線            |
| sea coal                        | 煤粉              |
| seal                            | 封               |
| sealant                         | 密封劑；封閉劑；封合劑     |
| sealer                          | 塗封物             |
| sealing                         | 封裝              |
| sealing glass                   | 熔封玻璃            |
| seamless tubular design         | 無縫管型設計；免封裝管狀設計  |
| seam                            | 縫；接縫；縫合處；接合口；裂縫 |
| seam welding                    | 有縫銲接            |
| seaming iron                    | 接縫熔鐵            |
| seamless pipe                   | 無縫管             |
| season cracking                 | 季裂              |
| season distortion               | 季畸變             |
| seasoning                       | 風乾；季化           |
| seat                            | 座               |
| secant modulus                  | 正割模數            |
| second harmonics                | 二次諧波            |
| second order transformation     | 二階轉變；二階相變態      |
| second Virial coefficient       | 第二維里係數          |
| secondary air                   | 輔空氣；二次空氣        |
| secondary alloy                 | 再生合金            |
| secondary aluminium             | 次生鋁；再熔鋁         |
| secondary bainite               | 次生變韌體           |
| secondary battery               | 二次電池            |
| secondary battery hybrid system | 二次電池混合系統        |
| secondary clay                  | 次生黏土            |
| secondary coupling              | 次要偶合            |
| secondary creep                 | 二期潛變            |
| secondary crusher               | 二次軋碎機           |

|  |                     |
|--|---------------------|
| secondary crystal                      | 次生晶體                |
| secondary crystallization              | 次級結晶                |
| secondary electron image (SEI)         | 二次電子影像              |
| secondary electron microscopy          | 二次電子顯微術             |
| secondary electron spectroscopy        | 二次電子光譜術             |
| secondary eutectoid carbide            | 次生共析碳化物             |
| secondary graphitizing                 | 次生石墨化               |
| secondary hardening                    | 二次硬化                |
| secondary ion mass spectrometry (SIMS) | 二次離子質譜法；二次離子質譜術     |
| secondary ion mass spectroscopy        | 二次離子質譜法；二次離子質譜術     |
| secondary metal                        | 再生金屬；次成金屬           |
| secondary mill                         | 次軋機；中軋機             |
| secondary particle                     | 二次粒子                |
| secondary phase                        | 二次相；次相 { 除初生相外之各相 } |
| secondary plasticizer                  | 助塑化劑                |
| secondary quenching                    | 二次淬火                |
| secondary recrystallization            | 二次再結晶               |
| secondary sorbite                      | 次生橫斑體               |
| secondary structure                    | 次級結構；次生組織           |
| secondary troostite                    | 次生吐粒散體              |
| second-harmonic generation microscope  | 二次諧波量測顯微鏡           |
| second-order transition                | 二級轉換                |
| section                                | 剖面；斷面；型料            |
| sectional area                         | 斷面積                 |
| secular change                         | 長期變化                |
| sedimentary clay                       | 沉積黏土                |
| sedimentation                          | 沉積；沉降               |
| Seebeck coefficient                    | 賽貝克係數               |
| Seebeck effect                         | 賽貝克效應 { 熱電效應 }      |
| seed                                   | 種晶；播晶種              |

|                                  |                        |
|----------------------------------|------------------------|
| seed crystal                     | 晶種                     |
| seeding                          | 播晶種；種晶                 |
| seedlac                          | 粗蟲膠                    |
| Seger cone                       | 色格[測溫]錐                |
| Seger number                     | 色格錐號                   |
| Segerkegel                       | 色格[測溫]錐                |
| segment die                      | 分塊模                    |
| segmental arch                   | 弧拱                     |
| segmented cell in-series design  | 分段串聯電池設計               |
| segmented polyurethane elastomer | 嵌段式聚氨酯彈性體              |
| segregation                      | 偏析；偏析作用；析離             |
| segregation coefficient          | 偏析係數                   |
| seizure                          | 粘著                     |
| Sejournet process                | 席兆倫熱擠法 { 金屬熱擠時用玻璃粉潤滑 } |
| selected area diffraction (SAD)  | 擇區繞射                   |
| selection rule                   | 選擇法則                   |
| selective carburizing            | 局部滲碳                   |
| selective corrosion              | 局部腐蝕                   |
| selective hardening              | 局部硬化                   |
| selective heating                | 局部加熱                   |
| selective leaching               | 選擇浸濾；選擇腐蝕              |
| selective nitriding              | 局部氮化                   |
| selective oxidation              | 選擇性氧化                  |
| selective oxidation reactor      | 選擇性氧化反應器               |
| selective quenching              | 局部淬火                   |
| selective refining               | 選擇性精煉                  |
| selective solvent extraction     | 選擇性溶劑萃取                |
| selective tempering              | 局部回火                   |
| selectivity                      | 選擇性                    |
| selenium (Se)                    | 硒                      |
| selenium copper                  | 硒銅                     |
| self diffusion                   | 自擴散                    |

|   |            |
|---|------------|
| self-adjusting arc welding              | 自動電弧熔接     |
| self-annealing                          | 自行退火       |
| self-assembled block copolymer          | 自組裝區段共聚物   |
| self-assembled material                 | 自組裝材料      |
| self-assembled monolayer (SAM)          | 自組裝單層      |
| self-assembled nanostructure            | 自組裝奈米結構    |
| self-assembled quantum dot array        | 自組裝量子點陣列   |
| self-assembled superlattice             | 自組裝超晶格     |
| self-assembled surface film             | 自組裝表面[薄]膜  |
| self-assembling                         | 自組裝化       |
| self-assembly                           | 自組裝        |
| self-clean function                     | 自潔功能       |
| self-consistent-field (SCF) model       | 自洽場模型      |
| self-diffusion                          | 自行擴散       |
| self-electro-optic effect device (SEED) | 自電光效應元件    |
| self-fluxing iron ore                   | 自含熔劑鐵礦     |
| self-fluxing pellet                     | 自含熔劑礦球     |
| self-hardening steel                    | 自硬鋼        |
| self-ignition temperature               | 自燃溫度       |
| self-interstitial                       | 自填隙；自身填隙原子 |
| self-interstitial atom                  | 自身填隙原子     |
| self-nucleating technique               | 自成核技術      |
| selfoiling                              | 自行油潤       |
| self-organization                       | 自行組織       |
| self-organization principle             | 自組織原則      |
| self-propagating combustive reaction    | 自延燃燒反應     |
| self-reinforced silicon nitride         | 自增強氮化矽     |
| self-similarity                         | 自[相]似性     |
| self-skimming                           | 自行除渣       |
| self-structuring                        | 自結構化       |

|                             |                    |
|-----------------------------|--------------------|
| self-sustained reaction     | 自持續反應              |
| self-tempering              | 自行回火               |
| selryt cloth                | 細微磨布 { 具有長細毛之拋光布 } |
| semi-anthracite             | 半無煙煤               |
| semi-bituminous             | 半煙煤                |
| semi-coke                   | 半焦                 |
| semiconducting glaze        | 半導性釉               |
| semiconductivity            | 半導性                |
| semiconductor               | 半導體                |
| semiconductor junction      | 半導體界面              |
| semiconductor laser         | 半導體雷射              |
| semiconductor nanoparticle  | 半導體奈米顆粒            |
| semiconductor nanostructure | 半導體奈米結構            |
| semiconductor nanowire      | 半導體奈米[導]線          |
| semiconductor quantum wire  | 半導體量子線             |
| semi-continuous casting     | 半連續鑄造              |
| semicontinuous kiln         | 半連續窯               |
| semi-continuous mill        | 半連續軋機              |
| semicrystalline polymer     | 半晶聚合物              |
| semidry pressing            | 半乾壓合               |
| semi-finished product       | 半成品                |
| semifinishing impression    | 半成型                |
| semi-hard steel             | 半硬鋼                |
| semi-high-speed steel       | 半高速鋼               |
| semi-killed steel           | 半靜鋼                |
| semi-mild steel             | 半軟鋼                |
| semi-permanent mold         | 半永久模               |
| semipermeability            | 半滲透性               |
| semi-permeable membrane     | 半透膜                |
| semi-porcelain              | 半瓷器                |
| semirigid                   | 半剛性                |
| semi-silica                 | 半矽磚                |

|                              |                     |
|------------------------------|---------------------|
| semi-silica refractory       | 半矽質耐火材              |
| semi-steel                   | 鋼性鑄鐵；半鋼             |
| semitransparency             | 半透明                 |
| semi-vitreous                | 半瓷化；半玻化             |
| sensible heat                | 顯熱                  |
| sensitization                | 敏化；敏化處理             |
| sensitizer                   | 敏化劑                 |
| sensor                       | 感測器                 |
| sentinel pyrometer           | 高溫計                 |
| separated aggregate          | 篩分骨材                |
| separative work unit (SWU)   | 分離工作單位 { 用以計算工廠能量 } |
| sepiolite                    | 海泡石                 |
| sequence distribution        | 序列分佈                |
| sequenced copolymer          | 定序共聚物               |
| sequence-length distribution | 序列長度分佈              |
| sequencing                   | 序列                  |
| serial pattern               | 序列圖樣                |
| sericin                      | 絲膠                  |
| sericite                     | 絹雲母                 |
| serine proteinase            | 絲胺酸蛋白酶              |
| Serpek process               | 色沛克[氮固定]法           |
| serpentine                   | 蛇紋石                 |
| serrated saddle              | 齒狀墊座                |
| serum albumin                | 血清白蛋白               |
| sessile dislocation          | 不動差排                |
| sessility                    | 滯性                  |
| setter                       | 拖架；承載板              |
| setting                      | 裝窯；凝結               |
| setting-up agent             | 釉稠調節劑               |
| severity of quench           | 淬火效能                |
| sewer brick                  | 污水溝磚                |
| sewer pipe                   | 污水管                 |
| sgraffito                    | 刮花                  |

|                                |                  |
|--------------------------------|------------------|
| shadow mask exposure technique | 蔭罩曝光技術；陰影遮罩曝光技術  |
| shadow wall                    | 隔火牆              |
| shadowing                      | 造影 { 增加複印膜影像對比 } |
| shaft                          | 爐頸               |
| shaft furnace                  | 豎爐               |
| shaft kiln                     | 豎窯               |
| shake out machine              | 清箱機              |
| shaking ladle                  | 搖動盛桶             |
| shale                          | 頁岩               |
| shale planer                   | 開石機              |
| shallow drawing                | 淺拉延              |
| shallow forming                | 淺成型              |
| shallow hardening steel        | 淺硬化鋼             |
| shank                          | 柄                |
| shape                          | 型料               |
| shape anisotropy               | 形狀異向性            |
| shape anisotropy factor        | 形狀異向性因子          |
| shape control                  | 材形控制             |
| shape steel                    | 型鋼               |
| shaped beam technique          | 型束技術             |
| sharp sand                     | 淨砂；無粘結劑砂         |
| shatter crack                  | 碎裂               |
| shatter test                   | 墜落[強度]試驗         |
| shatter value                  | 鬆散度 { 鑄砂·焦炭等 }   |
| shattered crack                | 碎裂 { 毛髮狀裂縫 }     |
| shatterproof glass             | 防碎玻璃             |
| Shaw process                   | 蕭氏法 { 精密造模 }     |
| shear                          | 剪切；剪切機           |
| shear creep                    | 剪切潛變             |
| shear degradation              | 剪切降解             |
| shear lip                      | 剪裂唇              |
| shear modulus                  | 剪力模數；剪切模數        |
| shear spinning                 | 剪力旋壓             |

|                               |            |
|-------------------------------|------------|
| shear steel                   | 剪鋼         |
| shear strain                  | 剪應變        |
| shear strength                | 抗剪強度；剪切強度  |
| shear stress                  | 剪應力        |
| shear testing                 | 剪力試驗       |
| shear type chip               | 剪斷形切屑      |
| shearing                      | 剪切         |
| shearing deflection           | 剪撓度        |
| shearing force                | 剪力         |
| shearing interferometry       | 剪切干涉術      |
| shear-strain energy           | 剪應變能       |
| sheet                         | 片料         |
| sheet bar                     | 片條         |
| sheet calendering             | 薄片壓延       |
| sheet glass                   | 平板玻璃       |
| sheet iron                    | 鐵皮         |
| sheet metal                   | 金屬片        |
| sheet mill                    | 軋片機        |
| sheet scrap                   | 板片廢料       |
| sheet steel enamel            | 鋼片搪瓷       |
| sheet structure               | 片料結構       |
| sheet-metal working           | 板金工作       |
| Sheffield plate               | 謝菲爾德板；包銀銅板 |
| shelf aging                   | 儲放老化       |
| shelf life                    | 儲放壽命       |
| shell                         | 殼；彈殼模；片剝   |
| shell and tube heat exchanger | 殼管式熱交換器    |
| shell cluster                 | 殼層團簇       |
| shell distance                | 殼層距離       |
| shell isolation               | 殼層隔離       |
| shell model                   | 殼層模型       |
| shell mold                    | 殼模         |
| shell mold casting            | 殼模鑄造       |
| shell molding                 | 薄殼模製；殼狀模製  |

|                            |              |
|----------------------------|--------------|
| shell moulding             | 殼模製造         |
| shellac                    | 蟲膠           |
| shelling                   | 殼；片剝         |
| sheltered corrosion        | 冷凝結水腐蝕       |
| sherardizing               | 滲鋅防蝕法；滲鋅法    |
| shield                     | 遮屏           |
| shield electrode           | 套覆鐸接條        |
| shielded welding           | 遮蔽鐸接         |
| shielded-metal-arc welding | [鈍度]遮蔽金屬電弧鐸接 |
| shielding gas              | 遮蔽氣體         |
| shielding glass            | 屏遮玻璃         |
| shift                      | 錯模；偏合 { 鑄疵 } |
| shift conversion           | 轉化           |
| shift factor               | 平移因子         |
| shift reaction             | 轉化反應         |
| shift reactor              | 轉化反應器        |
| shim                       | 薄墊片          |
| shivering                  | 粉碎           |
| shock resistance           | 耐震性          |
| shock-resisting steel      | 抗震鋼          |
| Shore hardness             | 蕭氏硬度         |
| Shore hardness test        | 蕭氏硬度試驗       |
| Shore hardness tester      | 蕭氏硬度計        |
| Shore scleroscope          | 蕭氏反跳硬度計      |
| short range force          | 短程力          |
| short range order (SRO)    | 短程有序         |
| short range ordering       | 短程序化         |
| short-circuit diffusion    | 短路擴散         |
| shorten material           | 減黏材料         |
| shorterizing               | 焰熱噴水硬化法      |
| shortness                  | 脆性           |
| short-range order          | 短程序化；短距序化    |
| shot                       | 粒；鋼珠         |
| shot blasting              | 珠粒噴擊         |

|                             |                                     |
|-----------------------------|-------------------------------------|
| shot iron                   | 鐵珠                                  |
| shot peening                | 珠擊法；噴珠處理                            |
| shot tablast                | 轉台式珠粒噴擊                             |
| shot tumblast               | 滾筒式珠粒噴擊                             |
| shoveling finish            | 鏟飾                                  |
| shoveling procedure         | 鏟法                                  |
| shredding                   | 撕裂                                  |
| shrend                      | 水淬                                  |
| shrink forming              | 收縮成形                                |
| shrinkage                   | 收縮                                  |
| shrinkage allowance         | 收縮裕度                                |
| shrinkage cavity            | 縮孔；收縮陷窩                             |
| shrinkage crack             | 縮裂 { or tear }                      |
| shrinkage hole              | 縮孔                                  |
| shrinkage pipe              | 收縮管                                 |
| shrinker                    | 收縮包                                 |
| shrinking                   | 收縮                                  |
| shrink-proof                | 防縮                                  |
| shuttle kiln                | 梭動窯；梭子機                             |
| sialic acid (SA)            | 唾液酸·涎酸                              |
| sicromal                    | 矽鎢鋁耐酸鋼 { 含 25%Cr · 3%Al · 1%Si 之鋼 } |
| side arch                   | 側拱磚                                 |
| side chain                  | 側鏈                                  |
| side lap                    | 側搭                                  |
| side runner                 | 側流道                                 |
| side-fired reformer furnace | 側燒重組爐                               |
| siderite                    | 菱鐵礦 { $\text{FeCO}_3$ }             |
| siege                       | 台座                                  |
| siegel                      | 鏡鐵                                  |
| Siemens process             | 西門子法                                |
| Siemens-Martin furnace      | 西門子馬丁爐                              |
| Siemens-Martin steel        | 西門子馬丁鋼                              |
| sieve                       | 篩                                   |

|                           |          |
|---------------------------|----------|
| sieve analysis            | 篩分析      |
| sieve classification      | 篩分級      |
| sieve mesh                | 篩目       |
| sieve opening             | 篩孔       |
| Sievert's law             | 西佛特定律    |
| signal bronze             | 號誌青銅     |
| signal glass              | 號誌玻璃     |
| silal                     | 高矽鑄鐵     |
| silane                    | 矽烷       |
| silcrome steel            | 矽鉻鋼      |
| silex                     | 燧石       |
| silfos                    | 西爾福銀焊合金  |
| silgrain                  | 矽粒       |
| silica                    | 氧化矽；矽石   |
| silica brick              | 矽磚       |
| silica clay               | 高矽黏土     |
| silica fireclay           | 矽石火黏土    |
| silica flour              | 矽砂粉      |
| silica gel                | 矽膠；氧化矽凝膠 |
| silica glass              | 氧化矽玻璃    |
| silica modulus            | 矽石模數     |
| silica refractory         | 矽石耐火材    |
| silica sand               | 矽砂       |
| silica sol                | 氧化矽溶膠    |
| silica wash               | 矽砂粉塗料    |
| silicate                  | 矽酸鹽      |
| silicate bond             | 矽酸黏合劑    |
| silicate cement           | 矽酸鹽水泥    |
| silicate glass            | 矽酸鹽玻璃    |
| silicate slime theory     | 矽酸鹽泥學說   |
| silicate soda             | 矽酸鈉      |
| silicate structure        | 矽酸鹽組織    |
| silicate tetrahedral unit | 矽酸鹽四面體單位 |
| silicate-type iron ore    | 矽酸質鐵礦石   |

|                            |  |
|----------------------------|--|
| siliceous fireclay         | 矽質耐火黏土                                   |
| silicied coating           | 矽化物護膜                                    |
| silico ferrite             | 含矽肥粒鐵                                    |
| silicomanganese            | 矽錳合金                                     |
| silico-manganese steel     | 矽錳鋼                                      |
| silicon (Si)               | 矽  |
| silicon brass              | 矽黃銅                                      |
| silicon bronze             | 矽青銅                                      |
| silicon carbide            | 碳化矽；金剛砂                                  |
| silicon dioxide            | 二氧化矽                                     |
| silicon iron sheet         | 矽鐵片                                      |
| silicon manganese steel    | 矽錳鋼                                      |
| silicon monoxide           | 一氧化矽                                     |
| silicon on insulator (SOI) | 絕緣體覆矽                                    |
| silicon steel              | 矽鋼                                       |
| silicone                   | 矽氧樹脂；聚矽氧；矽膠                              |
| siliconeisen               | 高矽鏡鐵 { 含 5-15%Si 之鐵 }                    |
| siliconizing               | 滲矽法                                      |
| silicosis                  | 矽肺病                                      |
| silico-spiegel iron        | 含矽鏡鐵                                     |
| silico-spiegeleisen        | 矽鏡鐵 { 含 15-20%Mn · 10%Si · 4%C · 其餘 Fe } |
| silicothermic reduction    | 矽熱還原                                     |
| silk                       | 絲；蠶絲                                     |
| silk sieve                 | 絹篩                                       |
| silk-screen process        | 絲網印刷法；絹印法                                |
| sillimanite                | 矽線石 { 矽酸鋁 }                              |
| siloxane                   | 矽氧烷                                      |
| silt                       | 泥灰                                       |
| silumin                    | 矽鋁明 { 矽鋁共晶合金 }                           |
| silvelmet                  | 銀鎢接點合金                                   |
| silver (Ag)                | 銀  |
| silver bromide (AgBr)      | 溴化銀                                      |

|                                  |   |
|----------------------------------|---|
| silver halide                    | 鹵化銀   |
| silver ion                       | 銀離子   |
| silver lustre                    | 銀光料   |
| silver solder                    | 銀焊料   |
| silver standard                  | 標準銀 { 英國含 Ag92.6% · 餘為 Cu ; 美國含 Ag90% · 餘為 Cu }         |
| silver steel                     | 銀鋼 { 含 0.95-1.25%C · 0.25-0.45%Mn · ≤0.5%Cr · ≤0.3%Si } |
| silver-cadmium oxide composite   | 銀-氧化鎘複合材料   |
| silvering                        | 上銀  |
| silver-plated copper             | 鍍銀銅   |
| silvery pig                      | 高鋅生鐵 ; 銀鐵   |
| silzin bronze                    | 矽鋅青銅  |
| sima                             | 矽鎂地層  |
| simple cubic                     | 簡單立方  |
| simple cubic structure           | 簡單立方結構  |
| simple hexagonal                 | 簡單六方  |
| simple monoclinic                | 簡單單斜  |
| simple orthorombic               | 簡單斜方  |
| simple rhombohedral              | 簡單斜方六面體   |
| simple tetragonal                | 簡單正方  |
| simple triclinic                 | 簡單三斜  |
| single atom machine              | 單原子機械   |
| single crystal                   | 單晶 ; 單晶體  |
| single crystal growth            | 單晶成長  |
| single domain particle           | 單磁區顆粒 ; 單域顆粒  |
| single electron device           | 單電子元件   |
| single electron transistor (SET) | 單電子電晶體  |
| single frame hammer              | 單架鎚   |
| single heterostructure laser     | 單異質結構雷射   |
| single molecule architecture     | 單分子建構   |

|                                       |               |
|---------------------------------------|---------------|
| single molecule magnet                | 單分子磁石         |
| single shell nanotube                 | 單殼層奈米管        |
| single-action press                   | 單動壓機          |
| single-arch hammer                    | 單拱鎚           |
| single-blow hammer                    | 單擊鎚           |
| single-bucket excavator               | 單斗挖掘機         |
| single-cavity die                     | 單穴模           |
| single-component anionic catalyst     | 單元陰離子觸媒       |
| single-component cationic catalyst    | 單元陽離子觸媒       |
| single-domain particle                | 單域顆粒          |
| single-impression die                 | 單型模           |
| single-operation die                  | 單序模           |
| single-stage nitriding                | 單段氮化          |
| single-stage quenching                | 單段淬火          |
| single-toggle jaw crusher             | 單肘顎軋機         |
| single-wall carbon nanotube (SWCNT)   | 單壁碳奈米管        |
| single-wall nanotube (SWNT)           | 單壁奈米管         |
| single-walled carbon nanotube (SWCNT) | 單壁碳奈米管        |
| single-walled nanotube (SWNT)         | 單壁奈米管         |
| sinking                               | 刻[模] ; 鑿[井]   |
| sinter                                | 燒結 ; 燒結礦 ; 泉華 |
| sintered aluminium powder (SAP)       | 燒結鋁粉件         |
| sintered carbide                      | 燒結碳化物         |
| sintered carbide steel                | 燒結碳化物鋼        |
| sintered filter                       | 燒結濾器          |
| sintered glass                        | 燒結玻璃          |
| sintered iron                         | 燒結鐵           |
| sintered magnet                       | 燒結磁鐵          |
| sintered steel                        | 燒結鋼           |
| sintering                             | 燒結            |
| sintering aid                         | 助燒結劑          |



|                      |              |
|----------------------|--------------|
| sintering furnace    | 燒結爐          |
| sintox               | 新陶克斯鋁氧       |
| size                 | 大小；度分；膠料     |
| size analysis        | 粒度分析         |
| size effect          | 尺寸效應         |
| sizing               | 上塗料；修準；量測；整粒 |
| sizing block         | 量塊           |
| sizing die           | 修準模          |
| sizing mill          | 修準軋機         |
| sizing pass          | 精光過程         |
| skeleton oven        | 骨架爐          |
| skelp                | [有縫管用]板條     |
| skelp mill           | 板條軋機 { 製管 }  |
| skew ray             | 歪斜光          |
| skewback             | 拱座           |
| skid polishing       | 滑漿拋光         |
| skim bob             | 撇渣包          |
| skimmer              | 撇渣器          |
| skimmer block        | 阻渣磚          |
| skin dried mold      | 表面烘乾模        |
| skin effect          | 集膚效應         |
| skin irritation test | 皮膚刺激性試驗      |
| skin substitute      | 皮膚替代物        |
| skip hoist           | 傾倒式吊車        |
| sklenar furnace      | 斯克林納爐        |
| skove kiln           | 方型無頂燒磚窯      |
| slab                 | 板塊；扁胚        |
| slab glass           | 光學玻璃板        |
| slabbing mill        | 扁[鋼]胚軋機      |
| slabstock            | 板材           |
| slack quenching      | 緩淬火          |
| slack wax            | 鬆蠟           |
| slag                 | 爐渣；熔渣        |
| slag cement          | 爐渣水泥         |

|                          |                        |
|--------------------------|------------------------|
| slag characteristics     | 熔渣特性                   |
| slag notch               | 放渣口                    |
| slag pocket              | 積渣室                    |
| slag reaction            | 熔渣反應                   |
| slag wool                | 渣棉                     |
| slag-off                 | 扒渣                     |
| slaked-lime              | 消石灰                    |
| slaking                  | 水化                     |
| slate                    | 板岩                     |
| Slater-Pauling curve     | 斯雷特-鮑林曲線               |
| sleeper wall             | 地壟牆                    |
| sleeve                   | 套筒                     |
| slide                    | 滑塊；滑動；幻燈片              |
| slide-off transfer       | 膠模印花紙                  |
| sliding die              | 滑動模                    |
| slime                    | 細泥；泥漿沫                 |
| slip                     | 泥漿；漿                   |
| slip band                | 滑移帶                    |
| slip casting             | 注漿成型；滑鑄 { 泥漿鑄造法 }      |
| slip deformation         | 滑移變形                   |
| slip glaze               | 泥釉                     |
| slip interference theory | 滑移干涉理論                 |
| slip line                | 滑移線                    |
| slip plane               | 滑移面                    |
| slip system              | 滑移系統                   |
| slipware                 | 泥釉陶                    |
| slitter                  | 縱剪機；剪條機；開縫機            |
| slitting                 | 縱剪；剪條；開縫               |
| sliver                   | 裂片；纖維束                 |
| slotting wheel           | 起槽磨輪                   |
| slot-type furnace        | 槽式爐                    |
| slow neutron             | 慢中子 { 能量小於 100ev 之中子 } |
| slow setting             | 緩凝                     |

|   |                                  |
|---|----------------------------------|
| slow-bend test                            | 慢彎試驗                             |
| sludge                                    | 軟泥                               |
| slug                                      | 泥餅；結塊；圓柱；磨煤；圓形短棒；重擊；史拉格 { 質量單位 } |
| slugged bottom                            | 厚底                               |
| slump                                     | 坍度；流動度                           |
| slump cone                                | 坍度錐                              |
| slump test                                | 流動度試驗                            |
| slump-relative consistency relationship   | 坍度-相對稠度關係                        |
| slump-relative water content relationship | 坍度-相對含水量關係                       |
| slurry                                    | 漿料                               |
| slurry coat                               | 漿料鍍膜                             |
| slurry filter                             | 泥漿濾器                             |
| slurrying                                 | 漿化                               |
| slush casting                             | 瀝鑄法                              |
| small angle neutron scattering (SANS)     | 小角度中子散射                          |
| small angle scattering (SAS)              | 小角度散射                            |
| small angle X-ray scattering (SAXS)       | 小角度 X 光散射                        |
| small interfered RNA (siRNA)              | 小干擾 RNA                          |
| small-angle grain boundary                | 小角度晶界                            |
| small-angle light-scattering              | 小角度光散射                           |
| small-angle scattering                    | 小角散射                             |
| small-angle tilt boundary                 | 小傾角晶[粒境]界                        |
| small-particle diffraction                | 小顆粒繞射                            |
| small-particle magnetism                  | 小顆粒磁性                            |
| smalt                                     | 花紺青；大青                           |
| smart material                            | 智慧材料；智慧型材料                       |
| SmCo5                                     | 鈷化鈰 { 一種強磁性材料粒 }                 |
| smectic phase                             | 層列相；介晶相 { 液晶相之一 }                |
| smelter                                   | 熔煉廠；冶煉廠                          |

|                                       |                         |
|---------------------------------------|-------------------------|
| smelting                              | 熔煉；冶煉                   |
| smith forging                         | 手工鍛造                    |
| smith welding                         | 鍛接                      |
| smoke glass                           | 煙玻璃                     |
| smoke seasoning                       | 燻煙乾燥法                   |
| smoothness                            | 平滑度                     |
| smut                                  | 鋁污層 { 鋁合金浸入苛性蘇打水後之黑表層 } |
| snagging                              | 粗磨                      |
| snakeskin glaze                       | 蛇皮釉                     |
| soaking                               | 浸熱；持溫；均熱；燻火             |
| soaking pit                           | 均熱爐                     |
| soaking time                          | 均熱時間                    |
| soaking zone                          | 均熱區                     |
| soap                                  | 肥皂                      |
| soapstone                             | 滑石；皂石                   |
| Society of Automotive Engineers (SAE) | 美國自動車工程學會               |
| SOD test                              | SOD 試驗 { 研判脆性破裂現象 }     |
| soda                                  | 鈉鹼；蘇打；氧化鈣               |
| soda ash                              | 蘇打灰                     |
| Soderberg electrode                   | 蘇氏電極                    |
| Soderberg's law                       | 蘇德伯法則 { 應力 }            |
| sodium (Na)                           | 鈉                       |
| sodium alginate                       | 海藻酸鈉；褐藻酸鈉               |
| sodium bentonite                      | 鈉系膨土；鈉系火山黏土             |
| sodium carboxymethylcellulose (NaCMC) | 羧甲基纖維素鈉鹽                |
| sodium chloride structure             | 氯化鈉結構                   |
| sodium silicate                       | 矽鈉 { 水玻璃 }              |
| sofe fragment                         | 軟片                      |
| soft annealing                        | 軟化退火                    |
| soft cats iron                        | 軟鑄鐵                     |
| soft grit                             | 軟粒                      |

|                               |             |
|-------------------------------|-------------|
| soft hematite                 | 軟赤鐵礦        |
| soft limonite                 | 軟褐鐵礦        |
| soft lithography              | 軟性石刻術；軟性微影術 |
| soft magnetic material        | 軟磁性材料       |
| soft material                 | 軟材料         |
| soft matter                   | 軟物質         |
| soft nitriding                | 軟氮化         |
| soft particle                 | 軟粒          |
| soft soldering                | 軟鐸          |
| soft spot                     | 軟點          |
| soft steel                    | 軟鋼          |
| soft X-ray spectrometer (SXS) | 軟 X 光光譜儀    |
| softener                      | 軟化劑         |
| softening                     | 軟化          |
| softening point               | 軟化點         |
| soft-mud process              | 軟泥法         |
| soft-paste porcelain          | 軟質瓷         |
| soft-tissue adhesive          | 軟組織接著劑      |
| soil corrosion                | 土壤腐蝕        |
| sol                           | 溶膠          |
| solar cell                    | 太陽電池；太陽能電池  |
| solar furnace                 | 太陽爐         |
| solar photovoltaic power      | 太陽光伏能       |
| solarization                  | 老化作用        |
| solder                        | 軟鐸料；鐸錫；鐸料   |
| solder bump                   | 鐸點凸塊；錫鐸凸塊   |
| solder clad copper            | 軟鐸料護面銅      |
| solder club                   | 軟鐸條         |
| solder iron                   | 軟焊烙鐵        |
| solder paint                  | 鐸漆          |
| soldering                     | 軟鐸；錫鐸；烙鐸    |
| soldier block                 | 立砌磚         |
| sole                          | 爐底          |

|                                 |            |
|---------------------------------|------------|
| sol-gel                         | 溶膠-凝膠      |
| sol-gel process                 | 溶膠-凝膠製程    |
| sol-gel synthesis               | 溶膠凝膠合成     |
| solid biomass energy            | 固態生質能      |
| solid carburizing               | 固體滲碳法      |
| solid casting                   | 實注法        |
| solid catalyst structure        | 固體觸媒結構     |
| solid contraction               | 固體收縮       |
| solid die                       | 實心模；整體模    |
| solid forging steel             | 實鍛鋼        |
| solid fuel                      | 固體燃料；固態燃料  |
| solid immersion lens (SIL)      | 固態浸沒透鏡     |
| solid lubricant                 | 固體潤滑劑      |
| solid mandrel                   | 實心心軸       |
| solid nonmetallic impurity      | 固態非金屬雜質    |
| solid oxide fuel cell (SOFC)    | 固態氧化物燃料電池  |
| solid polymer electrolyte (SPE) | 固態高分子電解質   |
| solid solubility                | 固溶體溶解度     |
| solid solubility limit          | 固溶限        |
| solid solution                  | 固溶體        |
| solid state amorphization       | 固態非晶質化[作用] |
| solid state ballast             | 固態安定器；鎮流器  |
| solid state bonding             | 固態結合       |
| solidification                  | 凝固         |
| solidification contraction      | 凝固收縮       |
| solidification grain structure  | 凝固晶粒組織     |
| solidification segregation      | 凝固偏析       |
| solidification shrinkage        | 凝固收縮       |
| solidoid                        | 析出終了線      |
| solid-state degassing process   | 固態除氣製程     |
| solidus                         | 固相線        |
| solidus line                    | 固相線        |

|  |           |
|--|-----------|
| solubility   | 溶解度       |
| solubility curve                                     | 溶解度曲線     |
| solubilization                                       | 溶解化       |
| soluble anode  | 可溶性陽極     |
| solute   | 溶質        |
| solute hardening                                     | 溶質強化      |
| solution   | 溶液        |
| solution annealing                                   | 固溶化退火     |
| solution ceramics                                    | 溶液陶瓷      |
| solution heat treatment                              | 溶解熱處理     |
| solution treatment                                   | 溶解處理      |
| solvent  | 溶劑        |
| solvent casting (SC)                                 | 溶劑鑄造法     |
| solvent casting /<br>particulate leaching<br>(SC/PL) | 溶劑鑄造鹽洗法   |
| solvent extraction                                   | 溶劑萃取      |
| solvus   | 固溶度線；固溶線  |
| solvus line  | 固溶線       |
| sonic fatigue  | 音波疲勞      |
| sonic testing  | 音波檢驗法     |
| sonim  | 夾灰        |
| sorbent trap   | 吸收劑捕[氣]阱  |
| sorbite  | 粘糙斑體；糙斑鐵  |
| sorbitic cast iron                                   | 粗斑鑄鐵      |
| Sorel cement   | 蘇魯水泥      |
| sorption   | 吸收；吸附     |
| sorption plasma<br>fractionation                     | 吸收性血漿分離   |
| soundness  | 固性；堅固性；健全 |
| space charge   | 空間電荷      |
| space elevator cable                                 | 太空電梯纜線    |
| space lattice  | 空間晶格；空間格子 |
| spacer   | 間隔物       |
| spallation   | 散裂        |
| spalling   | 剝落；剝裂     |

|                                 |               |
|---------------------------------|---------------|
| spark arrester                  | 火星攔截器         |
| spark hardening                 | 火花硬化法         |
| spark plug                      | 火星塞           |
| spark test                      | 火花試驗          |
| spathic iron ore                | 菱鐵礦           |
| spatial dispersion              | 空間色散 { 光學物理 } |
| spatial uniformity              | 空間均勻度         |
| spear pyrite                    | 瓣狀黃鐵礦         |
| special alloy steel             | 特種合金鋼         |
| special brass                   | 特殊黃銅          |
| special steel                   | 特殊鋼           |
| speciality mill                 | 專業壓機          |
| specific gravity                | 比重            |
| specific gravity test           | 比重試驗          |
| specific heat                   | 比熱            |
| specific humidity               | 比溼度           |
| specific interfacial area       | 比界面積          |
| specific modulus                | 比模數           |
| specific power                  | 比功率           |
| specific reaction constant      | 比反應常數         |
| specific reductance             | 比磁阻           |
| specific resistance             | 比電阻           |
| specific strength               | 比強度           |
| specific surface area           | 比表面積          |
| specific tenacity               | 比強度 { 強度密度比 } |
| specific viscosity              | 比黏度           |
| specific volume                 | 比容            |
| specification                   | 規範；規格         |
| specimen                        | 試樣            |
| speckled ware                   | 斑點器           |
| spectral hole burning<br>effect | 光譜孔燒效應        |
| spectrograph                    | 光譜圖           |
| spectrophotometer               | 分光光度計         |
| spectroscope                    | 分光儀           |

|                               |                        |   |                     |
|-------------------------------|------------------------|---|---------------------|
| spectroscopic analysis        | 分光分析                   | spin fluctuation behavior                             | 自旋起伏行為              |
| spectroscopy                  | 譜術；光譜術；能譜術；頻譜術；波譜術；光譜學 | spin glass  | 自旋玻璃[態]             |
| specular gloss                | 光澤率                    | spin magnetic moment                                  | 自旋磁矩                |
| specular reflector            | 鏡面反射體                  | spin ordering   | 自旋序化                |
| speculum metal                | 鏡青銅                    | spin polarization                                     | 自旋極化                |
| speed muller                  | 速練機                    | spin polarized scanning tunneling microscopy (SP-STM) | 自旋極化掃描穿隧顯微術         |
| speiss                        | 砷銻熔滓                   | spin scattering                                       | 自旋散射                |
| spelter                       | 粗鋅；硬錳黃銅                | spin valve head                                       | 自旋閥磁頭               |
| spent fuel                    | 用過[核]燃料                | spin wave stiffness constant                          | 自旋波剛性常數             |
| sphalerite crystal            | 閃鋅礦晶體                  | spinal cord   | 脊髓                  |
| sphene                        | 榭石                     | spindle   | 紡錘；心軸               |
| spherical aberration          | 球面像差                   | spin-echo double resonance (SEDOR)                    | 自旋回波雙共振             |
| spherical powder              | 球狀粉末                   | spinel  | 尖晶石 { $MgAl_2O_4$ } |
| spherically seated block      | 球面座塊；球狀支承塊             | spinnability  | 旋擠性；旋彎性             |
| spherocolloid                 | 球狀膠體                   | spinner flask   | 旋轉式培養瓶              |
| spheroidal cementite          | 球狀雪明碳體                 | spinner flask culture                                 | 旋轉瓶培養               |
| spheroidal graphite cast iron | 球狀石墨鑄鐵                 | spinning  | 旋擠；旋彎成型；紡絲          |
| spheroidal pearlite           | 球狀波來體                  | spinning backward                                     | 逆向旋擠                |
| spheroidite                   | 球化波來體                  | spinning brass  | 旋擠用黃銅               |
| spheroidized cementite        | 球狀雪明碳體                 | spinning forward                                      | 順向旋擠                |
| spheroidizing                 | 球化處理                   | spinodal alloy  | 離相合金                |
| spheroidization               | 球化處理                   | spinodal decomposition                                | 椎節分解；離相分解           |
| spheroprotein                 | 球狀蛋白                   | spinode   | 椎節                  |
| spherulite                    | 球晶                     | spin-on coating                                       | 旋塗層                 |
| spider                        | 輻；輻裂；蛛足架               | spin-orbit coupling                                   | 自旋 - 軌域耦合           |
| spiegeleisen                  | 鏡鐵                     | spin-polarization                                     | 自旋極化[作用]            |
| spike                         | 尖釘                     | spintronics   | 自旋電子學               |
| spin cluster model            | 自旋團簇模型                 | spinylock process                                     | 棘鎖法                 |
| spin coating                  | 旋轉塗佈；旋塗                | spiral test   | 渦旋試驗法               |
| spin configuration            | 自旋組態                   | Spirek mercury furnace                                | 史比克煉汞爐              |
| spin correlation function     | 自旋關聯函數                 | spit-out  | 噴孔                  |
| spin fluctuation              | 自旋起伏                   | splat cooling   | 急冷                  |

|                            |                   |
|----------------------------|-------------------|
| splicing                   | 剪切 { DNA, RNA }   |
| split brick                | 半厚磚               |
| split die                  | 分開模               |
| split roll                 | 分段輥               |
| split transformation       | 分裂轉變；分裂變態         |
| splitter                   | 分叉形               |
| splitting                  | 裂解                |
| spodumene                  | 鋰輝石               |
| sponge iron                | 海棉鐵               |
| sponging                   | 水拭                |
| spontaneous annealing      | 自生退火              |
| spontaneous change         | 自生變化              |
| spontaneous magnet         | 自生磁鐵              |
| spontaneous magnetization  | 自發磁化[作用]；自生磁化[作用] |
| spontaneous passivation    | 自然鈍態              |
| spontaneous polymerization | 自發聚合[作用]          |
| spot heating               | 局部加熱              |
| spot test                  | 滴點試驗              |
| spot welding               | 點銲                |
| spout                      | 流槽；流出口；壺嘴         |
| spray chilling             | 噴冷卻               |
| spray coating              | 噴覆；噴塗；噴塗被覆        |
| spray deposition           | 噴霧沉積              |
| spray discharge            | 噴霧放電              |
| spray drying               | 噴霧乾燥              |
| spray gun                  | 噴槍                |
| spray pyrolysis            | 噴霧熱裂解；噴霧熱分解       |
| spray quenching            | 噴水淬火法             |
| spray transfer             | 滴射熔接              |
| spray welding              | 噴銲                |
| sprayed metal              | 噴覆金屬；噴焊金屬         |
| sprayed metal coating      | 噴覆金屬敷層            |
| spraying                   | 噴塗；噴塗法            |

|                               |                 |
|-------------------------------|-----------------|
| sprayweld process             | 噴粉熔接法           |
| spreading coefficient         | 擴展係數            |
| sprig                         | 無頭小釘 { 砂模邊加強用 } |
| spring back                   | 彈回量             |
| spring brass                  | 彈簧黃銅            |
| spring steel                  | 彈簧鋼             |
| spring-hard cold work         | 彈簧級硬加工          |
| sprinkling                    | 灑水              |
| spruce                        | 針樅；銀杉           |
| sprue                         | 鑄口；澆口           |
| spumific agent                | 發泡劑             |
| spur                          | 爪形坯托            |
| sputter                       | 噴濺；濺射；濺鍍機       |
| sputter etching               | 濺射蝕刻；濺蝕         |
| sputtered coating             | 濺鍍              |
| sputtering                    | 濺射；濺鍍           |
| sputter-iron pump             | 噴濺離子幫浦          |
| square lattice                | 正方形晶格           |
| square rule                   | 平方法則            |
| squeegee process              | 塗刷法             |
| squeeze casting               | 擠壓鑄造            |
| squeeze molding machine       | 擠壓造模機           |
| squeezing                     | 擠壓法             |
| squirrel cage induction motor | 鼠籠感應馬達          |
| stability                     | 安定度；安定性         |
| stabilization                 | 安定化             |
| stabilized stainless steel    | 安定不鏽鋼           |
| stabilized zirconia           | 安定化氧化鋯          |
| stabilizer                    | 穩定劑；安定劑；穩定器     |
| stabilizing annealing         | 安定化退火           |
| stabilizing element           | 定安元素            |
| stabilizing treatment         | 安定化處理           |

|                                   |  |
|-----------------------------------|--|
| stable isotope                    | 穩定同位素  |
| stack                             | 煙囪；爐胸 { 鼓風爐 } ； [電池]堆                          |
| stack assembly                    | 電池堆組件  |
| stack breakdown                   | 堆疊損壞；堆疊崩潰                                      |
| stack cutting                     | 堆疊切割   |
| stack die                         | 堆疊晶粒   |
| stack module                      | 電池堆模組  |
| stack mold                        | 疊模   |
| stack molding                     | 疊模法  |
| stacking fault                    | 疊積缺層；疊差  |
| stacking fault                    | 疊差   |
| stahlton system                   | 鋼上建材   |
| stain                             | 色料；色斑；斑；瑕疵                                     |
| stainless steel                   | 不鏽鋼  |
| stair-rod dislocation             | 梯條形差排  |
| stake                             | 標樁；豎管；小鐵砧                                      |
| stamp mill                        | 搗碎機  |
| stamping                          | 衝鍛；衝印；搗碎；印花                                    |
| standard calomel electrode        | 標準甘汞電極   |
| standard carbon electrode (SCE)   | 標準碳電極  |
| standard color solution           | 標準色溶液  |
| standard emf series               | 標準電動勢系列  |
| standard free energy              | 標準自由能  |
| standard gold                     | 標準金 { 英國含金 91.6% · 餘為銅；美國含金 90% · 餘為 Cu }      |
| standard hydrogen electrode (SHE) | 標準氫電極  |
| standard projection               | 標準投影   |
| standard reference state          | 標準參考狀態   |
| standard sample                   | 標準試樣   |
| standard sand                     | 標準砂  |
| standard silver                   | 標準銀 { 英國含 Ag92.6% · 餘為 Cu ；美國含 Ag90% · 餘為 Cu } |

|                                   |           |
|-----------------------------------|-----------|
| standard solution                 | 標準溶液      |
| standard square                   | 標準磚       |
| standard state                    | 標準狀態      |
| standard structure                | 標準組織      |
| standard taper                    | 標準推拔      |
| stannizing                        | 滲錫法       |
| stannum (Sn)                      | 錫         |
| star dresser                      | 星形修整器     |
| star sapphire                     | 星彩藍寶石     |
| starch                            | 澱粉        |
| Stark effect                      | 斯塔克效應     |
| Stark spectroscopy                | 斯塔克光譜術    |
| Stark-effect transistor           | 斯塔克效應電晶體  |
| starred glaze                     | 星形結晶釉     |
| starved glaze                     | 欠釉        |
| static casting                    | 靜壓鑄造      |
| static culture                    | 靜置培養      |
| static fatigue                    | 靜態疲勞      |
| static hysteresis                 | 靜遲滯       |
| static modulus of elasticity      | 靜彈性模數     |
| static-freeze procedure           | 靜態凝固法     |
| stationary die                    | 固定模       |
| stationary fuel processing system | 固定式燃料處理系統 |
| stationary phase                  | 固定相       |
| steadite                          | 史帝田鐵      |
| steady state creep                | 定常潛度      |
| steady state spectroscopy         | 穩態光譜術     |
| steam cleaning                    | 蒸汽清潔法     |
| steam drop hammer                 | 蒸汽落錘      |
| steam ejector                     | 蒸汽噴射器     |
| steam hammer                      | 蒸汽錘；汽錘    |
| steam quenching                   | 蒸汽淬火      |
| steam reforming                   | 蒸氣重組      |

|                     |                |
|---------------------|----------------|
| steam seasoning     | 蒸汽乾燥法          |
| steam tempering     | 蒸汽回火；蒸汽捏和      |
| steam turbine       | 蒸氣渦輪           |
| steam-iron process  | 蒸氣-鐵製程 { 生產氫 } |
| stearate            | 硬脂酸鹽；十八酸鹽      |
| steatite            | 塊滑石；凍石         |
| steel               | 鋼              |
| steel band          | 鋼帶             |
| steel bar           | 鋼條             |
| steel billet        | 小鋼坯            |
| steel bloom         | [中]鋼塊          |
| steel casting       | 鋼鑄件            |
| steel converter     | 煉鋼轉爐           |
| steel forging       | 鍛鋼件            |
| steel foundry       | 鑄鋼廠；鑄鋼場        |
| steel ingot         | 鋼錠             |
| steel jacket        | 鋼套             |
| steel magnet        | 鋼磁石            |
| steel making        | 煉鋼             |
| steel mill          | 鋼鐵廠            |
| steel pipe          | 鋼管             |
| steel plate         | 鋼板             |
| steel powder        | 鋼粉             |
| steel scrap         | 廢鋼             |
| steel shape         | 型鋼             |
| steel sheet         | 鋼片             |
| steel shot          | 鋼珠             |
| steel trowel finish | 鋼鏟刀飾面          |
| steel weldment      | 鋼熔接件           |
| steel wire          | 鋼絲             |
| steel wire rope     | 鋼索             |
| steel wool          | 鋼絲絨            |
| steel-rule die      | 鋼條模            |
| steeping            | 浸透             |

|                             |                  |
|-----------------------------|------------------|
| Steger's crazing test       | 斯蒂格釉裂試驗          |
| Stellite                    | 史泰勒合金 { 一種鈷鎢合金 } |
| stem cell (SC)              | 幹細胞              |
| stent                       | 支架               |
| stent graft                 | 套[膜]支架           |
| step bar test               | 梯試驗              |
| step bar test piece         | 階梯形試片            |
| step-growth polymerization  | 階式成長聚合反應         |
| stepladder polymer          | 立梯型聚合物           |
| stepped annealing           | 分段退火             |
| stepped austenitizing       | 分段沃斯田體化          |
| stepped cooling             | 分段冷卻             |
| stepped hardening           | 分段硬化             |
| stepped quenching           | 分段淬火             |
| stepped refining            | 分段調質；分段精煉        |
| stepwise synthesis          | 逐步合成             |
| stereoblock                 | 立體區段             |
| stereochemistry             | 立體化學             |
| stereographic projection    | 立體投影             |
| stereographic ruler         | 立體尺              |
| stereographic triangle      | 球面立體三角           |
| stereoisomerism             | 立體異構性            |
| stereoregularity            | 立體規則性            |
| stereoselectivity           | 立體選擇性            |
| stereosequence distribution | 立體序列分佈           |
| stereospecificity           | 立體特异性            |
| stereo-type metal           | 紙版活字合金           |
| steric control              | 立體控制             |
| steric hindrance            | 立體阻礙             |
| steric interference         | 立體干擾             |
| steric randomness           | 立體亂度             |
| steric repulsion            | 立體排斥             |
| steric stabilization        | 立體穩定化[作用]        |



|                            |                              |
|----------------------------|------------------------------|
| sterilization              | 殺菌；滅菌                        |
| sterilzition               | 滅菌                           |
| Sterling silver            | 英幣標準銀 { 含 92.5%Ag }          |
| sticking                   | 黏著                           |
| sticking coefficient       | 黏附係數                         |
| stiff-mud process          | 硬泥法                          |
| stiffness                  | 剛性                           |
| stiff-plastic process      | 硬塑法                          |
| stilt                      | 爪形坯架                         |
| stishovite                 | 超石英                          |
| stock pile                 | 儲存堆                          |
| stoichiometry              | 化學計量學；化學計量法                  |
| stoker                     | 加煤機                          |
| stokes                     | 史托克斯 { 黏度單位 }                |
| Stokes' law                | 史托克斯定律                       |
| stoneware                  | 陶石器；炆器；缸器                    |
| stop off                   | 虛筋；虛塊 { 木模型加強用 }；暫塗 { 防起作用 } |
| storage                    | 貯藏                           |
| storage capacity           | 儲存容量                         |
| storage compliance         | 儲存柔量                         |
| storage modulus            | 儲存模數                         |
| storage temperature        | 儲存溫度                         |
| Stormer viscometer         | 史托馬黏度計                       |
| straight asphalt           | 直餾瀝青                         |
| straight polarity          | 正極性                          |
| straight-blade shearing    | 直刀剪截                         |
| straightener               | 矯直機                          |
| straightening              | 矯直                           |
| straightening press        | 矯直壓機                         |
| straight-line depreciation | 直線衰退                         |
| straight-side press        | 直側壓機                         |
| strain                     | 應變                           |

|                                   |                      |
|-----------------------------------|----------------------|
| strain age embrittlement          | 應變時效脆性               |
| strain ageing                     | 應變時效；應變老化            |
| strain aging                      | 應變時效；應變老化            |
| strain energy                     | 應變能                  |
| strain field                      | 應變場                  |
| strain figure                     | 應變圖                  |
| strain hardening                  | 應變硬化                 |
| strain optical coefficient        | 應變光學係數               |
| strain rate                       | 應變率                  |
| strain rate-temperature effect    | 應變速率-溫度效應            |
| strain relaxation                 | 應變鬆弛                 |
| strain relief                     | 應變釋放；弛變              |
| strain relief tempering           | 弛變回火                 |
| strain tensor                     | 應變張量                 |
| strain-anneal                     | 應變退火                 |
| strain-directed assembly          | 應變導向組裝               |
| strained casting                  | 變形鑄件                 |
| strained layer superlattice (SLS) | 應變層超晶格               |
| strain-energy release rate        | 應變能釋放率               |
| strainer core                     | 濾網狀蕊；濾器芯             |
| strain-hardening exponent         | 應變硬化指數               |
| strand count                      | 線股數；絞線支數             |
| Stranski-Krastanov growth         | 斯特朗斯基-柯拉斯達諾成長；S-K 成長 |
| Strauss test                      | 史特勞斯試驗 { 鋼料熔接腐蝕感受性 } |
| stray current                     | 逸散電流                 |
| stray current corrosion           | 逸散電流腐蝕               |
| stray magnetic field              | 逸散磁場                 |
| streaming birefringence           | 流動雙折射                |
| streaming potential               | 流動電位                 |
| streamline                        | 流線                   |
| strength                          | 強度                   |
| strength coefficient              | 強度係數                 |

|                                 |                   |
|---------------------------------|-------------------|
| strength to weight ratio        | 強度重量比             |
| strengthening mechanism         | 強化機構              |
| streptavidin                    | 卵白素               |
| streptolysin O (SLO)            | 鏈球菌溶血素 O          |
| stress                          | 應力                |
| stress aging                    | 應力時效              |
| stress analysis                 | 應力分析              |
| stress birefringence            | 應力雙折射             |
| stress concentration            | 應力集中；應力集中源        |
| stress concentration factor     | 應力集中因數            |
| stress concentrator             | 應力集中點             |
| stress corrosion                | 應力腐蝕              |
| stress corrosion cracking (SCC) | 應力蝕裂              |
| stress cracking                 | 應力破裂              |
| stress crystallinity            | 應力結晶性             |
| stress curve                    | 應力曲線              |
| stress decay                    | 應力衰變              |
| stress distribution             | 應力分佈              |
| stress equalizing               | 應力均一化             |
| stress heating                  | 應力加熱              |
| stress induced martensite (SIM) | 應力誘發麻田散鐵；應力誘發麻田散體 |
| stress intensity factor         | 應力強度因子            |
| stress peening                  | 應力珠擊              |
| stress raiser                   | 應力集中；應力集中源        |
| stress ratio                    | 應力比 { 疲勞試驗 }      |
| stress reinforcement            | 應力強化              |
| stress relaxation               | 應力鬆弛              |
| stress relaxation test          | 應力鬆弛試驗            |
| stress relief                   | 應力消除；應力釋放；弛力      |
| stress relief annealing         | 應力鬆弛退火            |
| stress relief heat treatment    | 弛力熱處理             |
| stress relief temperature       | 弛力溫度              |

|                                |            |
|--------------------------------|------------|
| stress relieving               | 應力解弛       |
| stress riser                   | 應力集中；應力集中源 |
| stress rupture strength        | 應力破斷強度     |
| stress rupture test            | 應力破斷試驗     |
| stress softening               | 應力軟化       |
| stress tensor                  | 應力張量       |
| stress-corrosion cracking      | 應力-腐蝕破裂    |
| stress-cracking resistance     | 應力破裂抗性     |
| stress-deformation rate        | 應力-變形速率    |
| stress-induced crystallization | 應力誘發結晶     |
| stress-induced martensite      | 應力誘發麻田散體   |
| stressless deformation         | 無應力變形      |
| stress-optical analysis        | 應力光學分析     |
| stress-optical law             | 應力光學定律     |
| stress-relaxation curve        | 應力鬆弛曲線     |
| stress-relaxation modulus      | 應力鬆弛模數     |
| stress-strain curve            | 應力-應變曲線    |
| stress-strain diagram          | 應力-應變圖     |
| stress-strain law              | 應力-應變定律    |
| stress-strain property         | 應力-應變性質    |
| stress-strain relationship     | 應力-應變關係    |
| stress-transfer mechanism      | 應力轉移機制     |
| stretch                        | 拉伸；伸展      |
| stretch bending                | 伸展彎曲       |
| stretch fabric                 | 延伸織物       |
| stretch forming                | 拉伸成形       |
| stretch mill                   | 延伸軋機       |
| stretch straightening          | 拉伸矯直       |
| stretchability                 | 伸展性        |
| stretched-membrane theory      | 張膜理論       |
| stretcher                      | 順磚         |
| stretcher strain               | 伸張應變       |

|                              |                     |
|------------------------------|---------------------|
| striae                       | 擦痕                  |
| striation                    | 條紋 { 疲勞 }           |
| strickle                     | 刮板                  |
| strike                       | 礦脈走向；試鍍；著擊陷坑 { 電鍍 } |
| striking                     | 加熱發色                |
| striking surface             | 搥擊面                 |
| string                       | 絲筋                  |
| strip                        | 條料；板條               |
| strip annealing              | 板條退火                |
| stripper                     | 脫模具；剝除器；開箱器；脫模工     |
| stripping                    | 拔模；剝取；剝除            |
| stripping machine            | 拔模機                 |
| stroke                       | 行程；衝程               |
| strontium (Sr)               | 銦                   |
| structural composite         | 結構複材；結構複合材料         |
| structural fluctuation       | 結構性起伏               |
| structural material          | 結構材料                |
| structural mill              | 型鋼軋機                |
| structural model             | 結構模型                |
| structural plastic laminate  | 結構塑膠積層板             |
| structural rearrangement     | 結構重排                |
| structural stability         | 組織安定性               |
| structural steel             | 結構鋼；構造用鋼            |
| structure                    | 結構                  |
| structure factor             | 結構因子                |
| structure sensitive property | 組織敏感性質              |
| studding                     | 螺樁                  |
| Stuerzelberg furnace         | 司托次保爐               |
| sub-atomic particle          | 次原子粒子               |
| subband                      | 次能帶                 |
| subband splitting            | 次能帶分裂               |
| sub-bituminous coal          | 次煙煤                 |

|                                |                |
|--------------------------------|----------------|
| subboundary                    | 次晶界            |
| sub-boundary structure         | 次晶界組織          |
| subchloride process            | 次氯化物法          |
| sub-critical annealing         | 次臨界[溫度]退火      |
| sub-critical treatment         | 次臨界[溫度]處理      |
| subgrain                       | 次晶粒            |
| subgrain formation             | 次晶粒生長          |
| sublimation                    | 昇華             |
| sublimation pump               | 昇華幫浦           |
| submerged corrosion test       | 浸漬腐蝕試驗         |
| submerged wall                 | 潛爐壁            |
| submerged-arc furnace          | 潛弧電爐           |
| submerged-arc welding          | 潛弧熔接           |
| sub-microstructure             | 次顯微組織          |
| suboxide                       | 次氧化物           |
| subpress die                   | 模架模            |
| subscale formation             | 鑄皮下氧化 { 內部氧化 } |
| substantive dye                | 直接染料           |
| substantivity                  | 直接性            |
| substituent effect             | 取代基效應          |
| substitution                   | 取代             |
| substitutional impurity defect | 置換型雜質缺陷        |
| substitutional solid solution  | 置換型固溶體         |
| substrate                      | 基材；基板          |
| substrate material             | 基板材料           |
| substructure                   | 次結構；次組織        |
| sub-structure formation        | 次結構形成          |
| subtraction phase              | 缺位相 { 缺陷組織 }   |
| sub-zero coolant               | 深冷劑            |
| subzero treatment              | 深冷處理；零下處理      |
| sub-zero working               | 深冷加工           |
| succinite                      | 琥珀             |
| suck-and-blow process          | 吸吹成形法          |

|                                   |           |
|-----------------------------------|-----------|
| suction pump                      | 吸式幫浦      |
| suction pyrometer                 | 吸入[式]高溫計  |
| sugar                             | 糖         |
| sugar cane                        | 甘蔗        |
| sugar moiety                      | 糖部份體      |
| sulfate                           | 硫酸鹽       |
| sulfate resisting cement          | 耐硫酸鹽水泥    |
| sulfate-reducing bacteria         | 硫酸鹽還原細菌   |
| sulfate-resistant Portland cement | 耐硫酸鹽波德蘭水泥 |
| sulfidation attack                | 硫化腐蝕      |
| sulfide                           | 硫化物       |
| Sulfinol process                  | 薩菲諾去硫產氫製程 |
| sulfinuz hardening process        | 滲硫硬化處理    |
| sulfinuz process                  | 蘇芬納法      |
| sulfonation                       | 磺化        |
| sulfone                           | 磺         |
| sulfur (S)                        | 硫         |
| sulfur crosslink                  | 硫交聯       |
| sulfur dye                        | 硫染料       |
| sulfur oxide                      | 硫氧化物      |
| sulfur poisoning                  | 硫毒化       |
| sulfur trioxide                   | 三氧化硫      |
| sulfur-bearing lubricant          | 含硫潤滑劑     |
| sulfurized oil                    | 硫化油       |
| sulfurous pollutant               | 含硫污染物     |
| sulphating                        | 硫酸鹽化      |
| sulphonation                      | 磺化[作用]    |
| sulphur print                     | 硫印法       |
| sulphurizing                      | 硫化處理      |
| sunlight fastness                 | 耐陽光度      |
| super cooled austentite           | 過冷沃斯田體    |
| super cooled liquid               | 過冷液體      |
| super Duralumin                   | 超杜拉鋁      |

|   |                 |
|---|-----------------|
| super heating                                       | 過熱              |
| super invar steel                                   | 超恆範鋼            |
| super paramagnetic limit                            | 超順磁極限           |
| superalloy  | 超合金             |
| supercapacitor                                      | 超電容             |
| superconducting quantum interference device (SQUID) | 超導量子干涉儀         |
| superconductive polymer                             | 超導聚合物           |
| superconductivity                                   | 超導性；超導電性        |
| superconductor                                      | 超導體             |
| supercooling  | 過冷              |
| supercritical drying                                | 超臨界乾燥           |
| supercritical fluid                                 | 超臨界流體           |
| superdislocation                                    | 超差排             |
| super-duty fire clay                                | 超級耐火黏土          |
| super-duty fireclay brick                           | 特級火黏土磚          |
| superexchange interaction                           | 超交換作用           |
| superferromagnetism                                 | 超鐵磁性            |
| super-five-sense sensor                             | 超五感測器           |
| superfluid  | 超流體             |
| superfluidity                                       | 超流體性            |
| superheated steam                                   | 過熱蒸汽            |
| superheater   | 過熱器             |
| superheating  | 過熱              |
| superhelix  | 超螺旋 { DNA }     |
| superlattice  | 超晶格             |
| supermalloy   | 超導磁率合金          |
| supermodulus  | 超模數             |
| supermolecular structure                            | 超分子結構           |
| supermolecule                                       | 超分子             |
| supermumetal  | 超導磁率金屬 { 鐵鎳合金 } |
| superparamagnetic effect                            | 超順磁性效應          |
| superparamagnetic material                          | 超順磁材料           |

|  |         |
|--|---------|
| superparamagnetic relaxation                       | 超順磁性鬆弛  |
| superparamagnetism                                 | 超順磁[性]  |
| superplasticity                                    | 超塑性     |
| superpolymer                                       | 超聚合物    |
| super-refining steel                               | 超精煉鋼    |
| super-resolution near-field structure (super-RENS) | 超解析近場結構 |
| super-saturated solid solution                     | 過飽和固溶體  |
| supersaturation                                    | 過飽和     |
| supersaturation nucleation                         | 過飽和成核   |
| supersilica brick                                  | 高矽質磚    |
| supersonic aging                                   | 超音波時效   |
| supersonic beam expansion                          | 超音波束擴張  |
| supersonic flaw detecting test                     | 超音波探傷試驗 |
| supersonic heat treatment                          | 超音波熱處理  |
| supersonic liquid carburizing                      | 超音波液體滲碳 |
| supersonic nitriding                               | 超音波氮化   |
| supersonic quenching                               | 超音波淬火   |
| supersonic tempering                               | 超音波回火   |
| supersonic testing                                 | 超音波檢驗   |
| superstructure                                     | 超結構     |
| surface acoustic wave                              | 表面聲波    |
| surface activated bonding (SAB)                    | 表面活化接合  |
| surface alloying                                   | 表面合金化   |
| surface analysis technique                         | 表面分析技術  |
| surface area                                       | 表面積     |
| surface cleanliness test                           | 表面清潔試驗  |
| surface cluster                                    | 表面團簇    |
| surface counting                                   | 表面記數法   |
| surface coupling                                   | 表面耦合    |
| surface decarburization                            | 表面脫碳    |

|                                 |             |
|---------------------------------|-------------|
| surface defect                  | 表面缺陷        |
| surface density                 | 表面密度        |
| surface effect                  | 表面效應        |
| surface energy                  | 表面能         |
| surface finish                  | 表面光度        |
| surface folding                 | 表面皺摺        |
| surface hardening               | 表面硬化        |
| surface imperfection            | 表面缺陷        |
| surface labeling                | 表面標示        |
| surface light dot               | 表面光點        |
| surface mobility                | 表面遷移率；表面移動性 |
| surface modification            | 表面改質        |
| surface modifier                | 表面修飾劑       |
| surface peening                 | 表面噴擊        |
| surface pinhole                 | 表面針孔        |
| surface plasmon                 | 表面電漿子       |
| surface plasmon polariton       | 表面電漿[子]極化子  |
| surface plasmon resonance (SPR) | 表面電漿子共振     |
| surface potential               | 表面電位；表面位能   |
| surface property                | 表面性質        |
| surface pyrometer               | 表面高溫計       |
| surface quality                 | 表面性質        |
| surface reconstruction          | 表面重構        |
| surface resistivity             | 表面電阻率       |
| surface roughening              | 表面粗化        |
| surface roughness               | 表面粗度        |
| surface strength                | 表面強度        |
| surface tension                 | 表面張力        |
| surface topography              | 表面形貌學       |
| surface treatment               | 表面處理        |
| surface-active agent            | 表面活性劑       |
| surface-active substance        | 表面活性物質      |

|   |                 |
|---|-----------------|
| surface-area method of proportioning      | 表面積配合法          |
| surface-bound nanoparticle                | 表面接合奈米顆粒        |
| surfactant                                | 表面活性劑           |
| surfactant template                       | 表面活性劑模板         |
| surge control                             | 突波控制            |
| surgical reconstruction                   | 外科重建            |
| susceptibility                            | 磁化率；感磁率；感應率     |
| susceptibility factor                     | 感受因數 { 感磁，感溫 }  |
| suspended arch                            | 懸拱              |
| suspended-level viscometer                | 懸浮刻度黏度計         |
| suspension                                | 懸浮[物]           |
| suspension polymerization                 | 懸浮聚合            |
| suspension stabilizer                     | 懸浮安定劑           |
| suspensoid                                | 懸浮膠體            |
| Suzuki effect                             | 鈴木效應            |
| swab                                      | 水刷              |
| swage die                                 | 型鍛模             |
| swaging                                   | 型鍛              |
| sweating                                  | 出汗；熱件潤焊         |
| Swedish iron                              | 瑞典鐵             |
| sweeping mold                             | 旋刮砂模            |
| swell                                     | 鑄脹 { 砂模鑄疵 } ；脹疵 |
| swellability                              | 膨潤度             |
| swelling                                  | 溶脹              |
| Swindell electric furnace                 | 史溫得電爐           |
| swing grinder                             | 擺動砂輪機           |
| swing press                               | 螺旋壓機            |
| switched-reluctance motor                 | 開關式磁阻電動機        |
| synchrotron                               | 同步加速器           |
| symbiogenic evolutionary adaptation model | 共生起源進化適應模型      |

|                               |                |
|-------------------------------|----------------|
| symmetry operation            | 對稱運算           |
| Sympson type sand mill        | 辛浦森混砂機 { 轉輪式 } |
| synaeresis                    | [膠體]瀝水         |
| synchrocyclotron              | 同步迴旋加速器        |
| synchronous motor             | 同步馬達           |
| synchrotron orbital radiation | 同步環狀輻射         |
| synchrotron radiation (SR)    | 同步輻射           |
| syndiotactic polymer          | 間規聚合物          |
| syndiotacticity               | 間規性            |
| syneresis                     | [膠體]瀝水         |
| synergism                     | 加乘特性；綜效特性      |
| synovial fluid                | 滑液             |
| syntactic foam                | 複合微球泡材         |
| synthetic elastomer           | 合成彈性體          |
| synthetic molding sand        | 合成模砂           |
| synthetic pig iron            | 再生鐵            |
| system chip                   | 系統晶片           |
| system sand                   | 系統砂            |
| systemic toxicity             | 系統毒性           |
| system-in-package (SiP)       | 套裝系統           |
| system-on-chip (SoC)          | 晶片系統           |

# T

|                      |                                   |
|----------------------|-----------------------------------|
| tablet expedient     | 藥錠對策                              |
| tabular alumina      | 管狀氧化鋁                             |
| tack                 | 黏性                                |
| tack temperature     | 增粘溫度                              |
| tackification        | 增粘                                |
| tackifier            | 增粘劑                               |
| tacticity            | 立構規正度；立體化學性                       |
| Tafel equation       | 塔菲爾電化學方程式                         |
| Tafel plot           | 塔菲爾圖 { 極化 }                       |
| Tafel reaction       | 塔菲爾反應                             |
| tag                  | 標籤                                |
| tail                 | 尾砂                                |
| tailing              | 尾渣                                |
| Takken cracking test | 泰肯破裂試驗                            |
| talc                 | 滑石；皂石                             |
| talin                | 踝蛋白                               |
| tall oil             | 松油                                |
| Talysurf             | 泰利表面儀                             |
| tamarind gum         | 羅望子膠                              |
| tamping              | 搗實                                |
| tandem mill          | 直列式軋機                             |
| tangent modulus      | 切線模數                              |
| tank block           | 槽爐磚                               |
| tannic acid          | 單寧酸；鞣酸                            |
| tannin               | 丹寧；鞣酸                             |
| tanning              | 鞣製                                |
| tantalum (Ta)        | 鉭                                 |
| tantalum alloy       | 鉭合金                               |
| tantalum boride      | 硼化鉭                               |
| tantalum bronze      | 鉭青銅 { 含 10%Al，1.2%Mo，0.2%Ta，餘為銅 } |
| tantalum carbide     | 碳化鉭                               |

|  |                |
|--|----------------|
| tap density                                | 敲緊密度           |
| tap hole                                   | 出鐵口；流出口        |
| tape automated bonding (TAB)               | 捲帶式自動接合        |
| tape calendering                           | 軋膜成型法          |
| tape casting                               | 刮刀成形；薄帶成形      |
| taper sectioning                           | 斜切截面法 { 金相 }   |
| tapered wheel                              | 斜面砂輪           |
| taphole                                    | 流出孔            |
| tapot spout ladle                          | 壺嘴式澆斗          |
| tapping                                    | 出鐵；出銅；攻絲       |
| tapping mode                               | 輕敲模式           |
| tar  | 渣；焦油；瀝青        |
| tar acid                                   | 焦油酸            |
| target                                     | 靶 [材]；標的       |
| targeted drug delivery                     | 標靶藥物傳遞系統       |
| tarnishing                                 | 鏽晦             |
| tarpaulin                                  | 防水布            |
| tartrate-resistant-acid phosphatase (TRAP) | 抗酒石酸鹽酸性磷酸酶     |
| Taurus bronze                              | 陶青銅            |
| Tayler sieve                               | 泰勒篩            |
| Taylor dislocation                         | 泰勒差排           |
| Taylor's relation                          | 泰勒氏關係          |
| T-cracking test                            | T 形破裂試驗 { 熔接 } |
| tea-dust glaze                             | 茶葉末釉           |
| tear                                       | 開裂             |
| tearing                                    | 裂痕             |
| teaser                                     | 燒窯工            |
| technetium (Tc)                            | 鎝              |
| technical cohesive strength                | 凝聚力強度          |
| tee  | T 形尖           |
| teeming                                    | 注製；澆注          |
| teeth                                      | 牙齒             |

|   |                          |
|---|--------------------------|
| Teflon<br>{polytetrafluoroethylene<br>(PTFE)} | 鐵氟龍                      |
| Teflon-coated aluminum                        | 鐵氟龍護層鋁件                  |
| telescopic failure                            | 伸縮式故障                    |
| tellurium (Te)                                | 碲                        |
| tellurium copper                              | 碲銅                       |
| tellurium lead                                | 碲鉛 { 含 0.06%之鉛 }         |
| telomer                                       | 小高分子 ; 小聚合物<br>{ n=2~5 } |
| telomerization                                | 小高分子聚合反應                 |
| temmoku glaze                                 | 天目釉                      |
| temper  | 回火 ; 調質                  |
| temper bend test                              | 回火彎曲試驗                   |
| temper brittleness                            | 回火脆性                     |
| temper carbon                                 | 回火碳                      |
| temper color                                  | 回火色                      |
| temper crack                                  | 回火破裂                     |
| temper designation                            | 煉度命名 ; 性狀命名              |
| temper hardening                              | 回火硬化                     |
| temper rolling                                | 調質軋壓 ; 回火軋壓              |
| temper stressing                              | 回火應力法                    |
| temperability                                 | 回火能                      |
| temperature                                   | 溫度                       |
| temperature factor                            | 溫度因子                     |
| temperature gradient                          | 溫度梯度                     |
| temperature inversion                         | 溫度逆轉                     |
| temperature loss                              | 溫度損失                     |
| temperature<br>polymerization                 | 聚合溫度                     |
| temperature sensitive<br>hydrogels            | 感溫性水膠                    |
| temperature<br>susceptibility                 | 感溫磁化率                    |
| temperature-diffuse<br>scattering             | 溫度-擴散散射                  |
| temperature-gradient<br>furnace               | 溫度梯度爐                    |
| tempered bainite                              | 回火變韌鐵                    |

|   |                       |
|---|-----------------------|
| tempered glass                          | 強化玻璃                  |
| tempered martensite                     | 回火麻田散鐵                |
| tempered metal                          | 回火金屬 { 母合金 }          |
| tempered sorbite                        | 回火糙斑體                 |
| tempered steel                          | 回火鋼                   |
| tempered structure                      | 回火組織                  |
| tempered troostite                      | 回火吐粒散體                |
| tempering                               | 徐冷 ; 回火               |
| tempilstik                              | 測溫筆                   |
| template                                | 模板                    |
| template assembled<br>synthetic protein | 模板自組裝合成蛋白質            |
| template die                            | 板模                    |
| templating                              | 模板化                   |
| temporary skin<br>substitutes           | 暫時性皮膚置換物              |
| tenacity                                | 抗拉強度                  |
| tenorite                                | 黑銅礦                   |
| tensegrity                              | 張力完整性                 |
| tensile creep                           | 拉伸潛變 ; 張力潛變           |
| tensile elongation                      | 拉伸伸長 ; 張力伸長           |
| tensile impact testing                  | 拉伸衝擊試驗 ; 張力衝<br>擊試驗   |
| tensile loading                         | 拉伸負荷 ; 張力負荷           |
| tensile modulus                         | 拉伸模數 ; 張力模數           |
| tensile property                        | 抗拉性                   |
| tensile relaxation<br>modulus           | 拉伸鬆弛模數 ; 張力鬆<br>弛模數   |
| tensile strain recovery                 | 拉伸應變回復                |
| tensile strength                        | 抗拉強度                  |
| tensile stress                          | 抗拉應力                  |
| tensile test                            | 拉伸試驗 ; 張力試驗 ;<br>抗拉試驗 |
| tensimeter                              | 抗力計                   |
| tension                                 | 張力 ; 拉力               |
| tension and compression                 | 伸縮                    |
| tension strength                        | 抗拉強度                  |



|                            |  |
|----------------------------|--|
| tension test               | 張力試驗   |
| tensor                     | 張量   |
| terabyte (TB)              | 兆位元  |
| terbium (Tb)               | 鉕  |
| terminal solid solution    | 端點固溶體  |
| termination polymerization | 終止聚合反應   |
| terminator                 | 終止劑  |
| ternary alloy              | 三成份系合金；三元合金                                    |
| ternary phase diagram      | 三元相圖   |
| ternary steel              | 三元鋼  |
| ternary system             | 三成份系   |
| ternary system             | 三元系  |
| terne plate                | 鍍鉛錫鋼板 { 以熱浸法鍍覆至少 20%Sn · 0.2%Sb · 其餘為 Pb 之鋼板 } |
| terpolymer                 | 三元聚合物  |
| terra cotta                | 紅土陶  |
| terra sigillata            | 紅精陶器   |
| tertiary air               | 三次空氣   |
| tertiary amine             | 三級胺  |
| tertiary creep             | 三期潛變   |
| tertiary structure         | 三級結構   |
| tessellated stresses       | 異成分間微應力  |
| tessera                    | 鑲嵌物  |
| test bar                   | 試桿   |
| test block                 | 試塊   |
| test cone                  | 試驗錐  |
| test on aggregate          | 骨材試驗   |
| test on cement             | 水泥試驗   |
| test on concrete           | 混凝土試驗  |
| test specimen              | 試樣   |
| test sprue                 | [脫氧]試棒   |
| testing                    | 試驗   |
| testing in compression     | 抗壓試驗   |

|  |         |
|--|---------|
| testing machine                        | 試驗機     |
| testing of briquet                     | 壓塊之試驗   |
| testing of cube                        | 立方體之試驗  |
| testing of flexure                     | 彎曲試驗    |
| tetracalcium alumino ferrite           | 鋁鐵酸四鈣   |
| tetracalcium phosphate monoxide (TCPM) | 一氧磷酸四鈣  |
| tetraethoxysilane                      | 四乙氧矽烷   |
| tetraethyl orthosilane                 | 四乙基正矽烷  |
| tetraethyl orthosilicate (TEOS)        | 四乙基正矽酸鹽 |
| tetragonal crystal                     | 正方晶體    |
| tetragonal martensite                  | 正方晶麻田散體 |
| tetragonal system                      | 正方[晶]系  |
| tetragonal zirconia polycrystal (TZP)  | 正方晶氧化鋯  |
| tetrahedral bond                       | 四面體結合   |
| tetrahedral group                      | 四面體群    |
| tetrahedral interstice                 | 四面體格隙   |
| tetrahedral site                       | 四面體位置   |
| tetrahedral structure                  | 四面體結構   |
| tetrahedral-shaped recess              | 四面體形凹   |
| textiles                               | 紡織物     |
| textural characteristics               | 織構特性    |
| texture                                | 織構      |
| textured and porous materials          | 織構與多孔材料 |
| thallium (Tl)                          | 鉍       |
| theoretical density                    | 理論密度    |
| therapeutics                           | 治療學     |
| thermal activation                     | 熱活化性    |
| thermal aging                          | 熱老化     |
| thermal analysis                       | 熱分析     |
| thermal asperity                       | 熱粗糙度    |
| thermal barrier                        | 熱阻障層    |
| thermal behavior                       | 熱行為     |

|                                   |                        |
|-----------------------------------|------------------------|
| thermal black                     | 熱裂解碳黑                  |
| thermal breakdown                 | 熱崩潰                    |
| thermal capacity                  | 熱容[量]                  |
| thermal center                    | 熱心 { 鑄件冷卻較慢處 }         |
| thermal conduction                | 熱傳導                    |
| thermal conductivity              | 熱傳導率；導熱率；導熱度；導熱性；熱導係數  |
| thermal contraction               | 熱收縮                    |
| thermal cracking                  | 熱裂解；熱破裂                |
| thermal cross-linking             | 熱交聯                    |
| thermal cycle test                | 熱循環試驗                  |
| thermal cycling test              | 熱循環試驗                  |
| thermal degradation               | 熱降解                    |
| thermal denaturation              | 熱變質                    |
| thermal diffuse scattering (TDS)  | 熱漫散射                   |
| thermal diffusion                 | 熱擴散                    |
| thermal diffusion coefficient     | 熱擴散係數                  |
| thermal diffusivity               | 熱擴散率；熱擴散係數；熱擴散性        |
| thermal efficiency                | 熱效率                    |
| thermal electric couple           | 熱電偶                    |
| thermal endurance                 | 耐熱性                    |
| thermal etching                   | 熱侵蝕                    |
| thermal evaluation analysis (TEA) | 熱演化分析                  |
| thermal expansion                 | 熱膨脹                    |
| thermal fatigue                   | 熱疲勞                    |
| thermal groove                    | 熱溝 { 晶粒成長 }；熱蝕溝 { 蝕刻 } |
| thermal history                   | 熱歷程                    |
| thermal hydrolysis                | 熱水解                    |
| thermal initiation                | 熱起始                    |
| thermal insulation                | 絕熱；熱絕緣                 |
| thermal lamination                | 熱層合                    |
| thermal oxidation                 | 熱氧化                    |

|                             |                     |
|-----------------------------|---------------------|
| thermal polymerization      | 熱聚合反應               |
| thermal process             | 熱製程                 |
| thermal property            | 熱性質                 |
| thermal protection system   | 熱防護系統               |
| thermal proteinoid          | 熱類蛋白質               |
| thermal pyrolysis           | 熱裂解[法]              |
| thermal refining            | 晶粒細微化；熱調質；熱精煉       |
| thermal runaway             | 熱失控                 |
| thermal shield              | 熱擋板                 |
| thermal shock               | 熱震                  |
| thermal shock resistance    | 熱衝擊阻抗               |
| thermal spalling            | 熱剝落；熱剝離             |
| thermal spectrometry        | 熱譜術                 |
| thermal spike               | 熱積面 { 輻射損傷高溫區 }；熱穿刺 |
| thermal spray               | 熱噴塗                 |
| thermal stability           | 熱安定性                |
| thermal stabilization       | 熱安定化                |
| thermal storage             | 儲熱                  |
| thermal straightening       | 熱矯直                 |
| thermal strain              | 熱應變                 |
| thermal stress              | 熱應力                 |
| thermal stress crack        | 熱應力破裂               |
| thermal stress cracking     | 熱應力破裂               |
| thermalloy                  | 耐熱合金                |
| thermally activated process | 熱活化過程               |
| thermionic emission         | 熱游離發射               |
| thermistor                  | 熱阻體；熱敏電阻器           |
| thermit                     | 鋁熱劑；發熱劑             |
| thermit process             | 鋁熱法；發熱法             |
| thermit reaction            | 鋁熱反應                |
| thermit welding             | 鋁熱熔接法；發熱熔接法         |
| thermobalance               | 熱天秤                 |

|   |                     |                                    |            |
|---|---------------------|------------------------------------|------------|
| thermochemical conversion               | 熱化學轉換               | thermomechanical writing           | 熱機書寫；熱機描寫  |
| thermocouple                            | 熱電偶                 | thermometals                       | 雙金屬 { 熱彎 } |
| thermocouple gauge                      | 熱電偶量計               | thermometric conductivity          | [測溫]熱傳導率   |
| thermocouple pyrometer                  | 熱電偶高溫計              | thermomigration                    | 熱遷移        |
| thermodynamic factor                    | 熱力學因子 { 擴散 }        | thermonuclear reaction             | 熱核子反應      |
| thermodynamic property                  | 熱力學性質               | thermoosmosis                      | 熱滲透        |
| thermodynamic state                     | 熱力學狀態               | thermo-paint                       | 測溫塗料       |
| thermodynamics                          | 熱力學                 | thermoplastic elastomer            | 熱塑彈性體      |
| thermodyne test                         | 熱達因檢驗法              | thermoplasticity                   | 熱塑性        |
| thermoelastic effect                    | 熱彈性效應               | thermopower                        | 熱電力        |
| thermoelastic martensite transformation | 熱彈型麻田散體轉變；熱彈型麻田散體變態 | thermo-quenching                   | 熱淬火        |
| thermoelasticity                        | 熱彈性                 | thermoscope                        | 驗溫器        |
| thermoelectric effect                   | 熱電效應                | thermoset                          | 熱固性        |
| thermoelectric generating material      | 熱電發電材料              | thermosetting plastics             | 熱固型塑膠      |
| thermoelectric junction                 | 熱電接面                | thermosetting polymer              | 熱固性聚合物     |
| thermoelectricity                       | 熱電性；熱電學             | thermosol                          | 熱溶膠        |
| thermo-electromotive force              | 熱電動勢                | thermospray process                | 熱噴敷法       |
| thermofixation                          | 熱固定                 | thermostat                         | 恆溫器        |
| thermoforming                           | 熱成型                 | thermosyphon                       | 熱虹吸        |
| thermogalvanic corrosion                | 熱電腐蝕                | thickener                          | 增稠器；增稠劑    |
| thermogram                              | 熱分析圖                | thickening                         | 增稠         |
| thermogravimetric analysis (TGA)        | 熱重分析                | thickness                          | 厚度         |
| thermoluminescence                      | 熱致發光；熱螢光            | Thiele modulus                     | 塞爾模數       |
| thermolysis                             | 熱分解；熱解              | thimble                            | 套管         |
| thermomagnetic device                   | 熱磁元件                | thin film                          | 薄膜         |
| thermomagnetic tempering                | 熱磁回火                | thin film deposition               | 薄膜沉積       |
| thermomechanical analysis (TMA)         | 熱機分析；熱機械分析          | thin film magnetic recording media | 薄膜磁記錄媒體    |
| thermomechanical property               | 熱機械性質               | thin film nanocomposite            | 薄膜奈米複材     |
| thermo-mechanical treatment (TMT)       | 熱機械處理               | thin-layer chromatography          | 薄層色層分析術    |
| thermo-mechanical vibration treatment   | 熱機械振動處理             | thinner                            | 稀釋劑        |
|   |                     | thinning                           | 稀釋；薄化      |
|   |                     | thioester method                   | 硫代酯法       |

|                               |  |
|-------------------------------|--|
| thiol                         | 硫醇                                       |
| thiolate ligand               | 含硫配位基                                    |
| thiol-modified rubber         | 硫醇改質橡膠                                   |
| thionine                      | 硫胺酸                                      |
| thiophenol                    | 苯硫酚；硫代苯酚                                 |
| third point loading           | 三等分點荷重法                                  |
| thixotropy                    | 觸變減黏性；流變減黏性；趨流性；搖溶性<br>{ 液體剪應力改變而使黏度變化 } |
| Thomas process                | 湯姆斯法 { 即鹼性柏塞麥法 }                         |
| Thomas steel                  | 湯姆斯鋼 { 即柏思麥鋼 }                           |
| thoria                        | 氧化鈷 { ThO <sub>2</sub> }                 |
| thoriated tungsten            | 鈷氧鎢                                      |
| thorium (Th)                  | 鈷  |
| thread guide                  | 導線器                                      |
| three point loading           | 三點負荷                                     |
| three-D heat treatment        | 三元熱處理 { 溫度·時間·外力 }                       |
| three-high mill               | 三輓軋機；三重軋機                                |
| three-high rolling mill       | 三重軋機                                     |
| three-layer refining process  | 三層精煉法                                    |
| three-quarters hard cold work | 四分之三硬級冷加工                                |
| three-roll forming            | 三輓成形                                     |
| threshold                     | 臨限值                                      |
| throat                        | 喉道；爐喉                                    |
| thrombin                      | 凝血                                       |
| thrombin inhibitor            | 凝血抑制劑                                    |
| thromboembolic complications  | 血栓栓塞併發症                                  |
| thromboembolism               | 血栓性栓塞[症]                                 |
| throwing                      | 拉坯                                       |
| throwing power                | 電鍍均厚能力                                   |
| thulium <sup>TM</sup>         | 鈹  |
| thumb print                   | 指紋；指紋法                                   |

|   |                      |
|---|----------------------|
| thymine (T)                                       | 胸腺嘧啶                 |
| thyristor   | 閘流電晶體                |
| tie line  | 連結線                  |
| tie molecule                                      | 聯結分子                 |
| tight binding model                               | 緊束縛模型                |
| tight junction                                    | 緊密連接                 |
| tile  | 瓷磚；瓦                 |
| tile hanging                                      | 掛瓦法                  |
| tilt boundary                                     | 傾斜晶界                 |
| tilt mould  | 傾斜模                  |
| tilting cupola                                    | 傾斜式[熔鐵]爐             |
| time delay of yield point                         | 降伏點遲延                |
| time effect                                       | 時間效應                 |
| time-of-flight mass spectrometer                  | 飛行時間質譜儀              |
| time-quenching                                    | 分段淬火                 |
| time-resolved photocharge (TRPC)                  | 時間解析光電荷；時間分辨光電荷      |
| time-resolved technique                           | 時間解析技術；時間分辨技術        |
| time-temperature curve                            | 時溫曲線                 |
| time-temperature superposition                    | 時溫等效                 |
| time-temperature transformation curve (TTT curve) | 時溫轉變曲線；時溫變態曲線；TTT 曲線 |
| time-yield test                                   | 時間對降伏潛變試驗            |
| timing device                                     | 計時器                  |
| Timken alloy                                      | 天肯合金                 |
| tin   | 錫                    |
| tin alloy   | 錫合金                  |
| tin brass   | 錫黃銅                  |
| tin bronze  | 錫青銅                  |
| tin cry   | 錫鳴                   |
| tin disease                                       | 錫病；錫害                |
| tin foil  | 錫箔 { 2×10-3in 厚以上 }  |
| tin pest  | 錫害；錫病 { 灰錫 }         |

|                           |                           |
|---------------------------|---------------------------|
| tin sweat                 | 錫汗                        |
| tin-base bearing metal    | 錫基軸承合金                    |
| tin-coated brass          | 鍍錫黃銅                      |
| tin-coated copper         | 鍍錫銅                       |
| tin-coated steel          | 鍍錫鋼                       |
| tinkering                 | 熔補                        |
| tinned sheet iron         | 鍍錫鐵片                      |
| tinning process           | 鍍錫法                       |
| tin-plate                 | 鍍錫鐵片                      |
| tinsel                    | 飾用鉛鋅合金 { 含 60%Zn 餘為鉛 }    |
| tinstone                  | 錫石 { SnO <sub>2</sub> }   |
| tinting strength          | 著色力; 著色強度                 |
| tin-zinc electroplate     | 錫-鋅電鍍層                    |
| tin-zinc electroplating   | 錫-鋅電鍍法                    |
| tin-zinc-coated steel     | 鍍錫-鋅鋼                     |
| tip-based oxidation       | 針尖誘導氧化                    |
| tipper test               | 脆性試驗                      |
| tire cord                 | 輪胎簾布                      |
| tissue compatibility      | 組織相容性                     |
| tissue culture            | 組織培養                      |
| tissue engineering        | 組織工程                      |
| tissue induction          | 組織誘導                      |
| tissue perfusion          | 組織灌流                      |
| tissue response           | 組織反應                      |
| tissue response to injury | 傷害對組織反應                   |
| titanate ceramics         | 鈦酸鹽                       |
| titania                   | 二氧化鈦 { TiO <sub>2</sub> } |
| titanic iron ore          | 鈦鐵礦                       |
| tita-nitriding process    | 滲鈦氮化法                     |
| titanium (Ti)             | 鈦                         |
| titanium alloy            | 鈦合金                       |
| titanium cast iron        | 鈦鑄鐵                       |
| titanosiloxane            | 鈦矽氧烷                      |
| titin                     | 巨型肌聯蛋白                    |

|                                    |   |
|------------------------------------|---|
| Tobin bronze                       | 陶丙青銅 { 似於海軍黃銅 }   |
| Tocco hardening                    | 陶可硬化法 { 感應加熱硬化法 }   |
| toggle press                       | 肘接壓機; 肘節壓機  |
| Tokamak                            | 托克瑪克 { 一種核熔合反應器 }   |
| tolerance                          | 公差  |
| tolerance zone                     | 公差範圍  |
| Tombac alloy                       | 銅貝合金 { 一種銅鋅合金 }   |
| tongs                              | 鉗   |
| tool steel                         | 工具鋼   |
| toothing                           | 齒接  |
| top & bottom process               | 分層操作法   |
| top die                            | 上模  |
| top pouring                        | 頂注法   |
| topaz                              | 黃晶; 黃玉; 黃寶石 { Al <sub>2</sub> F <sub>2</sub> SiO <sub>4</sub> } |
| topcoat                            | 面塗層   |
| top-down approach                  | 自上而下法; 由大而小法  |
| top-down nanostructure preparation | 自上而下奈米結構製備; 由大而小奈米結構製備  |
| top-finishing                      | 面尾工   |
| top-fired reformer furnace         | 頂燒重組爐   |
| toplifting                         | 後跟表皮  |
| topochemical reaction              | 拓樸化學反應  |
| topographic characterization       | 形態特性分析  |
| topographic contrast               | 形貌對比  |
| topography                         | 形貌學; 地形學  |
| topoisomerase                      | 拓樸異構酶   |
| topological defect                 | 拓樸缺陷  |
| topology                           | 拓樸學 { 數 }   |
| topping cycle                      | 頂循環; 先發電循環  |
| torch cutting                      | 火焰切割  |
| torching                           | 座瓦嵌泥灰   |

|   |             |
|---|-------------|
| torn surface  | 撕裂面         |
| torque  | 扭矩；轉矩       |
| torque rheometer  | 扭矩流變儀       |
| torr  | 托 { mm Hg } |
| torsion   | 扭力          |
| torsion fatigue strength                                  | 扭力疲勞強度      |
| torsion test  | 扭力試驗        |
| torsion testing machine                                   | 扭力試驗機       |
| torsion viscometer  | 扭力黏度計       |
| torsional braid analysis                                  | 扭辮分析        |
| torsional creep   | 扭轉潛變        |
| torsional pendulum  | 扭轉擺；扭轉鐘擺    |
| torsional strength  | 扭力強度        |
| tortoiseshell   | 龜甲紋         |
| total carbon  | 全碳量         |
| total case depth  | 硬化層總深度      |
| total decarburized depth                                  | 全脫碳深度       |
| total hip arthroplasty                                    | 全髖關節成型術     |
| total hip replacement                                     | 全人工髖關節置換    |
| total implantable artificial heart                        | 全人工心臟置換     |
| total internal reflection fluorescence microscopy (TIRFM) | 全內反射螢光顯微術   |
| total joint replacement                                   | 全人工關節置換     |
| total melting loss  | 全熔程損失       |
| touch welding   | 接觸熔接        |
| tough pitch copper  | 精銅；韌煉銅      |
| tough-brittle transition                                  | 韌脆轉換        |
| toughened glass   | 韌化玻璃        |
| toughening  | 韌化          |
| toughness   | 韌性          |
| tourmaline  | 電氣石         |
| towing  | 擦光          |
| Townsend avalanche  | 湯生突崩        |
| Townsend criterion  | 湯生準則        |

|  |                   |
|--|-------------------|
| toxic equivalent quantity (TEQ)              | 毒性當量              |
| toxic substance                              | 有毒物質              |
| toxicity                                     | 毒性                |
| toxicological property                       | 毒物學性質             |
| toxicology                                   | 毒物學；毒理學           |
| trabecular metal                             | 鬆質金屬 { 多孔性鉍結構 }   |
| trace concentration                          | 微量濃度              |
| trace determination                          | 微量測定              |
| tracer                                       | 追蹤劑               |
| tracer technique                             | 追蹤法；追蹤術；追蹤物技術     |
| tragacanth gum                               | 山羊刺樹膠；黃耆膠；龍鬚膠；黃芪膠 |
| transfer ladle                               | 轉運[熔]桶            |
| transfer printing                            | 貼花印製法；轉印法         |
| transacetalization                           | 轉縮醛反應             |
| transamination                               | 轉胺反應              |
| transconformation                            | 構形轉移              |
| transcription                                | 轉錄                |
| transcrystalline fracture                    | [貫]穿晶[粒]破斷        |
| transdermal therapeutic system               | 經皮治療系統            |
| transducer                                   | 轉換器；換能器           |
| transepithelial electrical resistance (TEER) | 穿內皮組織電阻           |
| transesterification                          | 轉酯反應              |
| transfection efficiency                      | 轉染效率              |
| transfer                                     | 轉移；輸送             |
| transfer car                                 | 調轍車               |
| transfer coefficient                         | 傳遞係數              |
| transfer constant                            | 轉移常數              |
| transfer die                                 | 自送聯製模             |
| transfer machine                             | 自送聯製模機；輸送機        |
| transfer mold                                | 轉移模具              |
| transfer molding                             | 轉移模製；輸送模製         |
| transfer press                               | 自送聯製壓機            |

|  |                        |
|--|------------------------|
| transfer reaction                                    | 轉移反應                   |
| transfer ribonucleic acid                            | 轉移核糖核酸                 |
| transferase  | 轉移酶                    |
| transference number                                  | 遷移數                    |
| transfer-overvoltage                                 | 質傳過電壓                  |
| transformation                                       | 轉變；變態                  |
| transformation annealing                             | 轉變退火；變態退火              |
| transformation induced plasticity steel (TRIP steel) | 轉變誘發塑性鋼；變態誘發塑性鋼；TRIP 鋼 |
| transformation plasticity                            | 轉變塑性；變態塑性              |
| transformation point                                 | 轉變點；變態點                |
| transformation range                                 | 轉變範圍；變態範圍              |
| transformation strain                                | 轉變應變；變態應變              |
| transformation stress                                | 轉變應力；變態應力              |
| transformation temperature                           | 轉變溫度；變態溫度              |
| transformation toughening                            | 轉變韌化；相變韌化              |
| transforming growth factor beta (TGF-β)              | 變形生長因子-貝他              |
| transforming growth factor beta one (TGF-β1)         | 變形生長因子-貝他 1            |
| transgranular fracture                               | 穿晶破斷                   |
| transient creep                                      | 過渡潛變                   |
| transistor   | 電晶體                    |
| transit time   | 過渡時間                   |
| transition element                                   | 過渡元素                   |
| transition lattice                                   | 過渡晶格                   |
| transition layer                                     | 過渡層                    |
| transition metal                                     | 過渡金屬                   |
| transition period                                    | 過渡期                    |
| transition phase                                     | 過渡相                    |
| transition point                                     | 轉換點                    |
| transition temperature                               | 轉換溫度                   |
| transition zone                                      | 轉移區；過渡區                |
| transitional structure                               | 過渡組織                   |
| transketolase  | 轉酮醇酶                   |

|  |                    |
|--|--------------------|
| translation                            | 平移                 |
| translation reaction                   | 轉化反應               |
| translational scattering               | 平移散射               |
| translucence                           | 半透明                |
| translucency                           | 半透明性               |
| transmission                           | 穿透                 |
| transmission electron microscope (TEM) | 穿透式電子顯微鏡           |
| transmission electron microscopy (TEM) | 穿透式電子顯微術           |
| transmission Laue camera               | 穿透式勞厄照相機           |
| transmission Laue method               | 穿透式勞厄法             |
| transmission loss                      | 傳輸損耗               |
| transmittance                          | 透射率                |
| transmittance spectrum                 | 透射光譜               |
| transparency                           | 透明度                |
| transparent conducting coating         | 透明導電披覆層            |
| transparent conducting oxide (TCO)     | 透明導電氧化物            |
| transparent dielectrics                | 透明介電材料             |
| transpassive dissolution               | 過鈍態溶解              |
| transpassivity                         | 踰鈍態                |
| transplant                             | 移植                 |
| transplantation                        | 移植                 |
| transport                              | 輸送                 |
| transport coefficient                  | 輸送係數               |
| transport process                      | 傳輸過程               |
| transport resistance                   | 輸送阻力               |
| transuranic element                    | 超鈾元素 { 原子序 92 以上 } |
| transuranium element                   | 超鈾元素 { 原子序 92 以上 } |
| transverse bending test                | 橫向彎曲試驗             |
| transverse property                    | 橫向性質               |
| transverse rupture strength            | 橫向破裂強度             |
| transverse strength                    | 橫向強度               |

|                              |                       |
|------------------------------|-----------------------|
| transverse thermal current   | 橫熱流                   |
| transverse-arch kiln         | 橫拱窯                   |
| transvinylation              | 轉乙烯反應                 |
| trapped-stock bender         | 關閉式彎曲模                |
| trapping                     | 捕捉                    |
| treadle                      | 踏板                    |
| treadwear testing            | 胎面磨耗試驗                |
| treering                     | 起枝 { 電鍍中，高電流密度處突起現象 } |
| tremolite                    | 透閃石                   |
| triacetate fiber             | 三醋酸纖維                 |
| trial batch                  | 嘗試批次                  |
| trial method                 | 嘗試法                   |
| triaxial body                | 三軸坯體                  |
| triaxial test                | 三軸試驗                  |
| triaxiality                  | 三軸[應力]性               |
| triboelectricity             | 摩擦生電性                 |
| tribological property        | 摩擦特性                  |
| tribology                    | 摩擦學                   |
| tricalcium aluminate         | 鋁酸三鈣                  |
| tricalcium phosphate (TCP)   | 磷酸三鈣；三鈣磷酸鹽            |
| tricalcium silicate          | 矽酸三鈣                  |
| trichlorethylene             | 三氯乙烯                  |
| triclinic crystal            | 三斜晶體                  |
| triclinic system             | 三斜晶系                  |
| tridymite                    | 鱗石英                   |
| trigonal crystal             | 三角晶體                  |
| trigonal system              | 三角晶系                  |
| trimethoxysilyl              | 三甲氧基矽烷 { 斜方晶氧化物 }     |
| trimethylene carbonate (TMC) | 丙烯酸碳酸鹽；三亞甲基碳酸酯        |
| trimming                     | 修整；修邊                 |
| trimming die                 | 修邊模                   |
| triple alloy steel           | 三元合金鋼                 |

|  |                       |
|--|-----------------------|
| triple helix structure                   | 三股螺旋結構                |
| triple point                             | 三相點；三相平衡點             |
| triplexing                               | 三重熔煉                  |
| tripoli                                  | 矽藻石                   |
| tripolite                                | 矽藻石                   |
| tris(carboxymethyl)ethylenediamine (TED) | 三羧甲基乙二胺               |
| triton                                   | 氙核                    |
| trivial name                             | 俗名                    |
| trolley wire                             | 架空線 { 電車 }            |
| Trombe wall                              | 特隆比牆；向陽保溫牆            |
| trommel                                  | 轉筒篩                   |
| troostite                                | 吐粒散體；吐粒散鐵             |
| tropenas converter                       | 屈平鈉轉爐                 |
| trough                                   | 流槽                    |
| truck chamber kiln                       | 車室窯                   |
| true density                             | 真密度                   |
| true porosity                            | 真孔隙度                  |
| true specific gravity                    | 真比重                   |
| true stress                              | 真應力                   |
| true volume                              | 真體積                   |
| trumpet brass                            | 號角黃銅                  |
| truncated rhombic                        | 截面菱形                  |
| trypsin                                  | 胰蛋白酶                  |
| t-section                                | T 形料；T 型斷面            |
| TTT curve                                | TTT 曲線 { 時間，溫度，變態曲線 } |
| TTT diagram                              | TTT 圖                 |
| tube extrusion                           | 管狀擠型                  |
| tube furnace                             | 管形爐                   |
| tube mill                                | 管形研磨機                 |
| tubelining                               | 管襯                    |
| tuberculation                            | 結核體 { 局部腐蝕產生小堆 }      |
| tubular design                           | 管狀設計                  |
| tucking                                  | 手工造模                  |



|                              |   |
|------------------------------|---|
| tuckstone                    | 充填磚   |
| tuffride                     | 軟氮化   |
| Tukon test                   | 杜肯[硬度]試驗  |
| tumbling                     | 滾磨  |
| tumbling barrel              | 滾磨桶   |
| tumbling mill                | 滾磨機   |
| tumor                        | 瘤；腫瘤  |
| tumorigenesis                | 腫瘤生成  |
| tundish                      | 漏斗 { 澆鑄用 }  |
| tung oil                     | 桐油  |
| tungsten (W)                 | 鎢   |
| tungsten carbide             | 碳化鎢   |
| tungsten electrode           | 鎢電極   |
| tungsten inert gas welding   | 鎢極鈍氣熔接  |
| tungsten steel               | 鎢鋼  |
| tungsten-thoria electrode    | 鎢鈦電極  |
| tungsten-zirconia electrode  | 鎢鋯電極  |
| tungum alloy                 | 鄧肯合金 { 含 81-86%Cu · $\leq 3\%$ Al · $\leq 2\%$ Ni · $\leq 1\%$ Si · 餘為 Zn } |
| tunnel diode { Esaki diode } | 穿隧二極體 { 江崎二極體 }   |
| tunnel dryer                 | 隧道乾燥器   |
| tunnel effect                | 隧道效應  |
| tunnel furnace               | 隧道爐   |
| tunnel kiln                  | 隧道窯   |
| tunneling current            | 穿隧電流  |
| tunneling effect             | 穿隧效應  |
| tunneling volume             | 穿隧體積  |
| turbadium                    | 杜貝地合金 { 含 50%Cu · 2%Ni · 1.75%Mn · 0.5%Sn · 餘為 Zn }                         |
| turbidimeter                 | 濁度計   |
| turbidity                    | 濁度  |
| turbidity coefficient        | 混濁係數  |

|                                 |            |
|---------------------------------|------------|
| turbo-blower                    | 輪機鼓風機      |
| turbocharger                    | 渦輪增壓器      |
| turbomolecular pump             | 渦輪分子[真空]幫浦 |
| turbulent flow                  | 亂流         |
| turgite                         | 水赤鐵礦       |
| turks head roll                 | 方角型成形輥     |
| turnover molding machine        | 翻轉造模機      |
| turpentine                      | 松節油        |
| turpentine gum                  | 松脂膠        |
| tuyere                          | 風嘴；風口      |
| tweezer                         | 鑷子         |
| twin                            | 雙晶         |
| twin crystal                    | 雙晶         |
| twin deformation                | 雙晶變形       |
| twining                         | 雙晶化        |
| twinned crystal                 | 雙晶晶體       |
| twinned dendrite                | 對生枝晶       |
| twinning                        | 雙晶         |
| twin-plate process              | 兩面磨光法      |
| twinscrew                       | 雙螺桿        |
| twist                           | 扭轉         |
| twist boundary                  | 扭轉晶界       |
| twist plane                     | 扭轉面        |
| twist test                      | 扭轉試驗       |
| twisted pair                    | 雙絞線        |
| two-beam coupling               | 雙束耦合       |
| two-color pyrometer             | 雙色高溫計      |
| two-dimensional electrophoresis | 二維電泳       |
| two-high mill                   | 雙輥軋機；二重軋機  |
| two-high reversing mill         | 二重式可逆軋機    |
| two-high rolling mill           | 二重軋機       |
| two-metal corrosion             | 異電極[電池]腐蝕  |
| two-stage absorption            | 二段式吸收      |

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|                          |           |
|--------------------------|-----------|
| two-stage quenching      | 二段淬火      |
| two-stepped annealing    | 二段退火      |
| two-stepped normalizing  | 二段正常化     |
| two-stepped quenching    | 二段淬火      |
| type metal               | 活字合金；鑄字合金 |
| tyrosinase               | 酪胺酸酶      |
| tyrosine-derived monomer | 酪氨酸衍生單體   |
| tyrosine-derived polymer | 酪氨酸衍生聚合物  |

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# U

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|--|-----------|
| ulexite  | 硼酸鈉方解石    |
| ultimate analysis                                | 元素分析      |
| ultimate line                                    | 住留譜線      |
| ultimate property                                | 極限性質      |
| ultimate strain                                  | 極限應變      |
| ultimate strength                                | 極限強度；最高強度 |
| ultimate tensile strength (UTS)                  | 極限抗拉強度    |
| ultra filter                                     | 超濾器       |
| ultra large scale integration (ULSI)             | 極大型積體技術   |
| ultra marine                                     | 群青        |
| ultrabasic rock                                  | 起鹼性岩      |
| ultracentrifugation                              | 超離心       |
| ultrafast dynamics                               | 超快動力學     |
| ultrafiltration                                  | 超過濾       |
| ultrafiltration membrane                         | 超過濾透膜     |
| ultrahigh vacuum (UHV)                           | 超高真空      |
| ultrahigh-molecular-weight polyethylene (UHMWPE) | 超高分子量聚乙烯  |
| ultra-micro crystal                              | 超微晶體      |
| ultra-micro-analysis                             | 超微分析      |
| ultramicroelectrode                              | 超微電極      |
| ultra-microscope                                 | 超顯微鏡      |
| ultrapure metal                                  | 超純金屬      |
| ultrared ray                                     | 紅外線       |
| ultrasonic cleaning                              | 超音波清潔法    |
| ultrasonic dispersed method                      | 超音波分散法    |
| ultrasonic energy                                | 超音波能      |
| ultrasonic equipment                             | 超音波設備     |
| ultrasonic frequency                             | 超音頻率      |
| ultrasonic reflectoscope                         | 超音波反射儀    |
| ultrasonic soldering                             | 超音波軟焊     |

|  |                    |
|--|--------------------|
| ultrasonic testing                     | 超音波檢驗              |
| ultrasonic welding                     | 超音波熔接              |
| ultraviolet                            | 紫外線                |
| ultra-violet absorbing glass           | 吸紫外線玻璃             |
| ultraviolet irradiation                | 紫外線照射              |
| ultra-violet microscopy                | 紫外線顯微術             |
| ultraviolet photoemission spectroscopy | 紫外光發射能譜術           |
| ultraviolet radiation                  | 紫外線輻射              |
| ultra-violet ray intercepting glass    | 防紫外線玻璃             |
| ultra-violet ray transmitting glass    | 透紫外線玻璃             |
| ultraviolet-absorption spectrum        | 紫外線吸收光譜            |
| umber                                  | 棕土                 |
| umbilical cord                         | 臍帶                 |
| under annealing                        | 低溫退火 { Ac1-Ac3 間 } |
| under cooling                          | 過冷                 |
| under film corrosion                   | 膜下腐蝕               |
| under hardening                        | 硬化不足               |
| underbead crack                        | 焊珠底拆裂              |
| under-burnt                            | 欠熱                 |
| under-clay                             | 下盤黏土               |
| undercoat                              | 底塗層                |
| undercooled graphite                   | 過冷石墨               |
| undercooling                           | 過冷                 |
| under-glaze color                      | 釉下色彩               |
| under-glaze decoration                 | 釉下彩                |
| underground mining                     | 地下採礦               |
| understressing                         | 低應力處理              |
| uniaxial crystal                       | 單軸晶體               |
| uniaxial orientation                   | 單軸定向               |
| unidirectional freezing                | 單[方]向冷凝            |
| uniform elongation                     | 均勻伸長               |
| uniform hardening                      | 均勻硬化               |

|                                |                                    |
|--------------------------------|------------------------------------|
| uniform molecular weight       | 均勻分子量                              |
| uniformity of heating          | 均熱性                                |
| union metal                    | 聯合合金 { 含 1.5%Mg · 0.2%Ca 之鉛基軸承合金 } |
| unionmelt process              | 潛弧銲接法                              |
| unit cell                      | 單位晶胞                               |
| unit cell volume               | 單位晶胞體積                             |
| unit pole                      | 單位極                                |
| unit sand                      | 單元砂                                |
| universal mill                 | 萬能軋機                               |
| universal rolling mill         | 萬能軋軋機                              |
| universal stage                | 萬用承台                               |
| universal testing machine      | 萬能試驗機                              |
| unkilled steel                 | 未靜鋼                                |
| unoriented crystalline polymer | 未定向結晶型聚合物                          |
| unpaired electron              | 未配對電子                              |
| unrelaxed elastic modulus      | 無遲滯彈性模數                            |
| unsaturated acid               | 不飽和酸                               |
| unsaturated rubber             | 不飽和橡膠                              |
| unsaturation                   | 不飽和                                |
| unzipping                      | 解聚合                                |
| up hill quenching              | 深冷急熱處理                             |
| up-draught kiln                | 升焰窯                                |
| up-draw process                | 上引法                                |
| upper bainite                  | 上變韌鐵                               |
| upscaling                      | 放大化                                |
| upset welding                  | 端壓電熔接法                             |
| upsetter                       | 鍛粗機                                |
| upsetting                      | 鍛粗                                 |
| up-take                        | 升道                                 |
| uracil (U)                     | 尿嘧啶                                |
| uranium (U)                    | 鈾                                  |
| uranium carbide                | 碳化鈾                                |

|                         |         |
|-------------------------|---------|
| urease                  | 尿素酶     |
| urethane oil            | 胺酯油     |
| urethane polymer        | 胺酯聚合物   |
| urethane-urea copolymer | 聚氨酯脲共聚物 |
| urinary prostheses      | 人工尿道    |
| uronic acid             | 糖醛酸     |
| uvarovite               | 鈣鉻柘榴子石  |

# V

|                                  |           |
|----------------------------------|-----------|
| vacancy                          | 空位        |
| vacancy diffusion                | 空位擴散      |
| vacancy jump                     | 空位跳躍      |
| vacancy pair                     | 空位對       |
| vacancy pair diffusion           | 空位對擴散     |
| vacuum bag-autoclave             | 真空袋高壓滅菌鍋  |
| vacu-blast                       | 抽吸噴擊      |
| vacuum annealing                 | 真空退火      |
| vacuum arc melting               | 真空電弧熔煉    |
| vacuum arc refining (VAR)        | 真空電弧精煉    |
| vacuum brazing                   | 真空硬焊      |
| vacuum carburization             | 真空滲碳      |
| vacuum casting                   | 真空鑄造      |
| vacuum cathodic etching          | 真空陰極蝕刻    |
| vacuum consumable arc furnace    | 電弧爐       |
| vacuum decarburization           | 真空脫碳      |
| vacuum degassing                 | 真空除氣      |
| vacuum deposition                | 真空澱積      |
| vacuum diffusion bonding         | 真空擴散接合    |
| vacuum distillation              | 真空蒸餾      |
| vacuum evaporation               | 真空蒸發；真空蒸鍍 |
| vacuum extraction                | 真空萃取；真空抽取 |
| vacuum firing                    | 真空燒製      |
| vacuum fluorescent display (VFD) | 真空螢光顯示器   |
| vacuum forming                   | 真空成形      |
| vacuum grinding                  | 真空研磨      |
| vacuum hardening                 | 真空硬化      |
| vacuum heat treatment            | 真空熱處理     |
| vacuum hot pressing              | 真空熱壓      |
| vacuum induction furnace         | 真空感應電爐    |

|                                   |                  |
|-----------------------------------|------------------|
| vacuum induction melting          | 真空感應熔解           |
| vacuum ingot casting              | 真空錠塊鑄造           |
| vacuum kneader                    | 真空捏和機            |
| vacuum melting                    | 真空熔解             |
| vacuum metallizing                | 真空金屬化            |
| vacuum metallurgy                 | 真空冶金學            |
| vacuum mixer                      | 真空混合機            |
| vacuum plating                    | 真空鍍覆             |
| vacuum press                      | 真空壓機             |
| vacuum pressure sintering furnace | 真空加壓燒結爐          |
| vacuum pugmill                    | 真空捏泥機            |
| vacuum pump                       | 真空泵              |
| vacuum refining                   | 真空精煉             |
| vacuum rolling                    | 真空滾軋             |
| vacuum sintering                  | 真空燒結             |
| vacuum treatment                  | 真空處理             |
| vacuum valve                      | 真空閥              |
| vacuum-cast ingot                 | 真空鑄錠             |
| valence charge                    | 價電荷              |
| valence crystal                   | 價結晶              |
| valence electron                  | 價電子              |
| valence excitation spectroscopy   | 價激發能譜術           |
| valence level                     | 價階位；價電能階         |
| valency compound                  | 原子價化合物           |
| valley degeneracy                 | 波谷簡併性            |
| valley printing                   | 壓槽印刷             |
| valley tile                       | 天溝瓦              |
| valve                             | 瓣膜               |
| valvular heart diseases           | 心臟瓣膜疾病           |
| Van Arkel-De Boer process         | 范亞克-戴波耳法         |
| Van der Veen test                 | 范德文試驗 { 缺口慢彎試驗 } |
| Van der Waals bond                | 凡得瓦鍵             |

|   |              |
|---|--------------|
| Van der Waals bonding                     | 凡得瓦結合；凡得瓦鍵結  |
| Van der Waals force                       | 凡得瓦力         |
| van Hove singularity                      | 維范霍夫奇異點      |
| vanadium (V)                              | 釩            |
| vanadium cast iron                        | 釩鑄鐵          |
| vanadium steel                            | 釩鋼           |
| vanadium yellow                           | 釩黃           |
| vane feeder                               | 葉輪加料機        |
| vapor absorber                            | 蒸氣吸收材        |
| vapor degreasing                          | 蒸氣去脂         |
| vapor growth                              | 氣相成長         |
| vapor phase inhibitor                     | 氣相[腐蝕]抑制劑    |
| vapor pressure                            | 蒸氣壓          |
| vapor-deposited coating                   | 氣相沉積層；氣相沉積披覆 |
| vapor-deposition polymerization           | 氣相沉積聚合反應     |
| vaporization                              | 氣化；蒸發        |
| vaporization                              | 汽化           |
| vaporization heat                         | 蒸發熱          |
| vapor-phase electrolytic deposition       | 氣相電解沉積       |
| vapor-phase epitaxial growth              | 氣相磊晶生長       |
| vapor-phase reaction                      | 氣相反應         |
| varistor                                  | 變阻器；變阻機      |
| varnish                                   | 清漆           |
| varying stress                            | 變動應力         |
| vascular cell                             | 血管細胞         |
| vascular endothelial growth factor (VEGF) | 血管內皮生長因子     |
| vascular replacement                      | 血管置換         |
| vascularization                           | 血管形成         |
| V-die                                     | V 型模         |
| Vebe apparatus                            | 韋伯儀器         |
| Vegard's Law                              | 魏加氏定律        |

|  |                |
|--|----------------|
| vegetable fiber (see fiber vegetable)          | 植物纖維           |
| vehicle battery                                | 車用電池           |
| vehicles, fuel cell powered                    | 車輛·燃料電池動力      |
| vein graphite                                  | 脈石墨            |
| vein quartz                                    | 脈石英            |
| veining  | 脈狀紋            |
| Vello machine                                  | 韋樂製管棒機         |
| vellum   | 牛皮紙            |
| vellum glaze                                   | 革光釉            |
| velocity                                       | 速度             |
| velocity impact hardening (VIH)                | 速擊硬化           |
| veneering                                      | 面飾法            |
| vent   | 通氣孔            |
| vent wax                                       | 通氣蠟條           |
| venting  | 通氣             |
| verdigris                                      | 銅綠 { 銅上空氣蝕產物 } |
| verge  | 山牆簷口           |
| vermicular graphite                            | 毛蟲狀石墨          |
| vermiculite                                    | 蛭石             |
| Verneuil crystal-growing technique             | 伏聶爾氏晶體生長技術     |
| vernier  | 游標             |
| vertebrate collagen                            | 脊椎動物膠原蛋白       |
| vertical illumination                          | 垂直照明；垂直照射      |
| vertical molding                               | 直立造模法          |
| vertical press                                 | 立式壓機           |
| vertical pugmill                               | 立式捏泥機          |
| vertical-cavity surface-emitting laser (VCSEL) | 垂直共振腔面射型雷射     |
| very large scale integration (VLSI)            | 超大型積體技術        |
| vesicle  | 囊泡             |
| vesicular structure                            | 多孔結構           |
| vibrating ball mill                            | 振動球磨機          |

|                                  |                    |
|----------------------------------|--------------------|
| vibrating conveyer               | 振運機                |
| vibrating screen                 | 振動篩                |
| vibrating sieve                  | 振動篩                |
| vibration frequency              | 振動頻率               |
| vibration mode                   | 振動模式               |
| vibrational scattering           | 振動散射               |
| vibrational transition           | 振動轉換               |
| vibrational-rotational state     | 振動-轉動態             |
| vibrator                         | 振動機；振動器            |
| vibroscope                       | 示振器                |
| vicalloy                         | 維凱合金 { 一種鈷鈳鐵磁性合金 } |
| Vicat needle                     | 菲卡針                |
| Vickers hardness                 | 維克氏硬度              |
| Vickers hardness test            | 維克氏硬度試驗            |
| Vickers hardness tester          | 維氏硬度計              |
| Victoria green                   | 維多利亞綠              |
| vignetting                       | 暈飾玻璃法              |
| Villari effect                   | 韋拉里效應 { 磁彈性 }      |
| vinyl compound                   | 乙烯基化合物             |
| vinyl foam                       | 乙烯基發泡體             |
| vinyl monomer                    | 乙烯基單體              |
| vinyl plastic                    | 乙烯基塑膠              |
| vinyl plastisol                  | 乙烯基塑溶膠             |
| vinyl polymer                    | 乙烯基聚合物             |
| viologen                         | 紫精                 |
| virgin metal                     | 初生金屬               |
| virgin tar                       | 初生焦油               |
| Virial coefficient               | 維里係數               |
| virtual crystal approximation    | 虛擬晶體近似             |
| virtual objective aperture (VOA) | 虛擬物鏡孔徑             |
| virus biochip                    | 病毒生物晶片             |
| virus template                   | 病毒模版               |

|   |                    |
|---|--------------------|
| visco elasticity                              | 黏彈性                |
| viscoelastic atomic force microscopy (VE-AFM) | 微粘彈性測定-原子力顯微鏡      |
| viscoelastic behavior                         | 黏彈行為               |
| viscometer                                    | 黏度計                |
| viscosity                                     | 黏度；黏性              |
| viscosity index                               | 黏度指數               |
| viscosity number                              | 黏度值                |
| viscosity ratio                               | 黏度比                |
| viscous creep                                 | 遲滯潛變               |
| viscous deformation                           | 黏滯變形               |
| viscous flow                                  | 黏滯流動；黏性流動          |
| Vitallium                                     | 維塔立合金 { 一種鈷鉻鋁鉬合金 } |
| vitreous                                      | 玻化；瓷化              |
| vitreous carbon                               | 玻璃碳 { 非晶態 }        |
| vitreous enamel                               | 琺瑯；搪瓷              |
| vitreous enamelling                           | 玻璃搪瓷               |
| vitreous glaze                                | 玻璃釉                |
| vitreous humor                                | 玻璃樣液               |
| vitreous quartz                               | 玻璃態石英 { 石英玻璃 }     |
| vitreous silica                               | 玻化石英               |
| vitreous slip                                 | 化粧土                |
| vitreous structure                            | 玻璃態組織              |
| vitreous-china sanitary-ware                  | 玻化衛生瓷              |
| vitrification                                 | 非晶質化；玻璃化；玻化；瓷化     |
| vitriified bond                               | 玻璃化熔結              |
| vitriified earthenware                        | 玻化陶器               |
| vitriified pot                                | 燒固熔罐               |
| vitriified process                            | 玻璃化熔結法             |
| Vogel's red                                   | 鐵紅                 |
| void  | 空隙；空穴              |
| void theory                                   | 空穴理論               |
| Voigt element                                 | 佛格單元               |

|                                      |                              |
|--------------------------------------|------------------------------|
| Voigt model                          | 佛格模式                         |
| volatile matter                      | 揮發物                          |
| volatile random access memory (VRAM) | 揮發性記憶體                       |
| volatility                           | 揮發性                          |
| Volmer-Weber theory                  | 沃謨 - 韋伯理論 { 成核 }             |
| voltage breakdown                    | 電壓崩潰                         |
| voltage efficiency                   | 電壓效率                         |
| voltage gradient                     | 電壓梯度                         |
| voltaic cell                         | 伏特電池                         |
| volume crystallinity                 | 容積結晶度                        |
| volume diffusion                     | 體擴散                          |
| volume fraction                      | 容積比                          |
| volume modulus                       | 體積模數                         |
| volume resistivity                   | 容積電阻率                        |
| volumetric analysis                  | 空積分析 ; 容量分析                  |
| volumetric method                    | 容量法                          |
| voluminal dilatation                 | 體積膨脹                         |
| voronoi polyhedron                   | 維諾多面體 ; 泰森多邊形                |
| vulcanite                            | 硬橡膠 ; 硬橡皮                    |
| vulcanization                        | 硫化                           |
| vulcanized polymer                   | 硫化聚合物                        |
| Vycor                                | 維可玻璃 { 美國康寧玻璃公司化學用耐熱玻璃的商用名 } |



# W

|                          |  |
|--------------------------|--|
| wad                      | 錳土；封[匣]鉢土  |
| wafer                    | 晶片   |
| Wagner oxidation process | 華格納氧化過程  |
| Wagner scaling equation  | 華格納氧化方程式   |
| Wagner's alloy           | 瓦氏合金 { 含 10%Sb · 3%Zn · 1%Cu · 1%Bi 之一種錫基合金 }          |
| Walker casting machine   | 華克爾鑄造機   |
| walking beam furnace     | 動樑爐；移動樑爐   |
| wall and line dynamics   | 壁和線動力學   |
| wall energy              | 壁能；疇壁能量  |
| wall motion bubble       | 疇壁運動氣泡   |
| wall state transition    | 壁狀態轉換  |
| wall tile                | 壁面磚  |
| Walterisation            | 磷酸鹽表面處理  |
| Wame's metal             | 瓦耐氏合金 { 含 73%Sb · 10%Sn · 7%Ni · 7%Bi · 3%Co 之飾用鑄造合金 } |
| Warburg impedance        | 華堡阻抗   |
| warm aging               | 溫間時效   |
| warm forging             | 溫鍛   |
| warm hardening           | 溫間硬化   |
| warm working             | 溫間加工   |
| warmer                   | 加溫器  |
| warpage                  | 翹曲；彎曲；扭曲   |
| warping                  | 翹曲；變形  |
| Warren-Averbach analysis | 瓦倫-艾弗巴赫分析  |
| wash primer              | 底漆 { 鋁基 }  |
| wash-mill                | 洗泥機  |
| wastage                  | 腐蝕耗損   |
| waste derived fuel       | 廢棄物衍生燃料  |
| waste heat               | 廢熱   |
| waste heat boiler        | 廢熱鍋爐   |

|                          |          |
|--------------------------|----------|
| waste heat recovery      | 廢熱回收     |
| waste water discharge    | 廢水排放     |
| waste-heat dryer         | 廢熱乾燥室    |
| waster                   | 廢磚       |
| water absorption         | 吸水率      |
| water content            | 含水量      |
| water cooled compressor  | 水冷壓縮機    |
| water cooling            | 水冷       |
| water electrolysis       | 水電解      |
| water glass              | 水玻璃      |
| water line               | 水線       |
| water mark               | 水印       |
| water proofing           | 防水；耐水    |
| water quenching          | 水淬火      |
| water reducing agent     | 減水劑      |
| water reducing retarder  | 減水緩凝劑    |
| water ring pump          | 水環泵      |
| water smoking period     | 烘烤時期；水燻期 |
| water splitting reaction | 水裂解反應    |
| water spot               | 水斑       |
| water stain              | 水跡       |
| water streak             | 水紋       |
| water test               | 水試驗      |
| water-break test         | 水膜分散試驗   |
| water-cement ratio       | 水灰比      |
| water-curing             | 水中養護     |
| water-drip test          | 水滴腐蝕實驗   |
| water-extended polyester | 充水聚酯     |
| waterfall process        | 淋釉法      |
| water-gas                | 水煤氣      |
| water-glass curing       | 水玻璃養護    |
| water-granulated slag    | 水淬粒渣     |
| water-jacket cupola      | 水套式熔鐵爐   |
| water-line attack        | 水線腐蝕     |

|  |           |
|--|-----------|
| water-proofing cement                    | 防水膠結劑     |
| water-seasoning                          | 水中季化      |
| water-soluble cellulose derivative       | 水溶性纖維素衍生物 |
| water-tightness                          | 水密性       |
| water-toughening                         | 水韌性       |
| water-treatment                          | 水處理       |
| Watson-Crick pairing                     | 沃森-克里克配對  |
| wave number                              | 波數        |
| wave soldering                           | 熔錫波焊      |
| wavefunction                             | 波函數       |
| wavelength                               | 波長        |
| wavelength-dispersive spectroscopy (WDS) | 波長色散光譜學   |
| wavepacket                               | 波包        |
| wax                                      | 蠟         |
| wax mold                                 | 蠟模        |
| wax string                               | 蠟帶        |
| wax vent                                 | 通氣蠟帶      |
| weak localization                        | 弱局域       |
| weak phase object approximation (WPOA)   | 弱位相物體近似   |
| wear                                     | 磨耗        |
| wear oxidation                           | 磨損氧化      |
| wear rating                              | 磨耗等級      |
| wear resistance                          | 耐磨力       |
| wear resistance                          | 耐磨度；耐磨性   |
| weather glass                            | 防風雨玻璃     |
| weathering                               | 風化；風蝕     |
| web                                      | 腹板        |
| wedge brick                              | 楔形磚       |
| Wedge furnace                            | 魏吉爐       |
| wedge pyrometer                          | 楔形高溫計     |
| Wedge roaster                            | 魏吉焙燒爐     |
| wedge test                               | 楔形試驗      |
| wedging                                  | 揉泥法       |

|   |                                  |
|---|----------------------------------|
| wedging table                           | 揉泥台                              |
| Weibull statistics                      | 韋伯統計                             |
| weighing feeder                         | 定量加料機                            |
| weight-average chain length             | 重量平均鏈長                           |
| weight-average degree of polymerization | 重量平均聚合度                          |
| weight-average molecular weight         | 重量平均分子量                          |
| Weiss temperature                       | 魏斯溫度                             |
| Welch's alloy                           | 韋爾希合金 { 約含 50%Al 及 50%Ag 之牙醫合金 } |
| weld                                    | 銲接                               |
| weld bead                               | 銲接珠                              |
| weld decay                              | 銲接腐蝕                             |
| weld metal                              | 銲填金屬                             |
| weldability                             | 可銲接性                             |
| welding                                 | 銲接；熔接                            |
| welding machine                         | 銲接機                              |
| welding rod                             | 銲接條                              |
| weldment                                | 銲接件                              |
| western bentonite                       | 西部膨土                             |
| wet corrosion                           | 溼腐蝕                              |
| wet curing                              | 溼潤養護                             |
| wet drawing                             | 溼拉延                              |
| wet mix                                 | 溼拌                               |
| wet nanotechnology                      | 溼奈米技術                            |
| wet pan                                 | 溼輾機                              |
| wet pressing                            | 溼壓                               |
| wet quenching                           | 溼式淬火                             |
| wet rot                                 | 溼腐                               |
| wet screening                           | 溼篩法                              |
| wet scrubbing                           | 溼式洗滌                             |
| wet spinning                            | 溼式紡絲                             |
| wettability                             | 潤溼性；可溼性                          |
| Wettengell press                        | 維登格壓床                            |

|                                 |  |
|---------------------------------|--|
| wetting                         | 潤溼   |
| wetting                         | 溼潤   |
| wetting agent                   | 潤溼劑  |
| wetting-off                     | 淬斷   |
| wheelabrator                    | 砂粒噴磨機  |
| wheel-barrow                    | 手推獨輪車  |
| wheeling                        | 拉旋坯  |
| whetstone                       | 磨石   |
| whirler                         | 轉盤   |
| whisker                         | 晶鬚   |
| whistler                        | [模穴]逸氣孔  |
| white acid                      | 白酸   |
| white annealing                 | 輝面退火   |
| white bronze                    | 白青銅 { 含 54%Cu · 4%Ni · 餘為 Zn }                       |
| white cast iron                 | 白鑄鐵  |
| white cell                      | 白血球  |
| white cement                    | 白水泥  |
| white clay                      | 白黏土  |
| white ground coat               | 白底塗  |
| white heart malleable cast iron | 白心展性鑄鐵；白心可鍛鑄鐵  |
| white iron                      | 白口鐵  |
| white lead                      | 鉛白 { $2\text{PbCO}_3 \cdot \text{Pb}(\text{OH})_2$ } |
| white line                      | 白線   |
| white metal                     | 白合金  |
| white pig iron                  | 白[口]生鐵   |
| white Portland cement           | 白[波特蘭]水泥   |
| white rust                      | 白霉   |
| white spot                      | 白斑   |
| white tin                       | 白錫   |
| whitener                        | 增白劑  |
| whiteness                       | 白度   |
| whiteware                       | 白陶瓷品   |
| whitewash                       | 浮霜；疤   |

|                                    |   |
|------------------------------------|---|
| whiting                            | 白堊粉   |
| whizzer blade                      | 風輪葉   |
| wicket                             | 窯門；爐口   |
| wide-angle X-ray scattering (WAXS) | 廣角 X 射線散射   |
| wide-flange beam                   | 寬緣樑   |
| Widia metal                        | 維第合金 { 碳化鎢 / 鈦之燒結件 }  |
| Widmanstätten structure            | 費德曼組織   |
| width                              | 寬度  |
| Wiedeman effect                    | 魏德曼效應   |
| Wigner-Seitz cell                  | 維格納-賽馳晶胞  |
| wild metal                         | 野性金屬  |
| willemite                          | 矽鋅礦   |
| willow blue                        | 柳青  |
| Wimet                              | 魏麥硬合金   |
| winding                            | 纏繞  |
| wiping solder                      | 拭焊合金  |
| wire                               | 線；線料  |
| wire bonding                       | 打線；鐳線   |
| wire cutting                       | 鋼絲切坯  |
| wire drawing                       | 拉線  |
| wire glass                         | 夾網玻璃  |
| wire mill                          | 軋線機；線料軋機  |
| wire rod                           | 線條  |
| wire texture                       | 線織構   |
| witherite                          | 碳酸鋇礦  |
| wolframite                         | 鎢錳鐵礦；鎢砂   |
| Wollaston wire                     | 弗拉斯頓線   |
| wollastonite                       | 矽灰石   |
| Wonler fatigue test                | 伍勒疲勞試驗  |
| wood flour                         | 木粉  |
| Wood's metal                       | 伍氏合金 { 熔點在 70 °C-72°C 易熔 · 含 Pb25% · Cd 12.5% · Sn12.5% · Bi50% } |
| woody structure                    | 木紋組織  |

|                                    |                  |
|------------------------------------|------------------|
| wool                               | 羊毛               |
| Wootz process                      | 吳滋[煉鋼]法          |
| Worcra continuous smelting process | 烏克蘭連續冶煉法 { 煉銅 }  |
| work function                      | 功函數              |
| work hardening                     | 加工硬化             |
| work softening                     | 加工軟化             |
| workability                        | 加工性              |
| workability agent                  | 加工性促進劑           |
| working                            | 加工；施工            |
| working end                        | 工作端              |
| working mould                      | 工作模              |
| working range                      | 工作[溫度]範圍         |
| working stress                     | 工作應力             |
| working stroke                     | 工作衝程；施工行程 { 壓機 } |
| worm conveyer                      | 螺[旋]運[送]機        |
| wound dressing                     | 創傷敷料             |
| wound healing                      | 傷口癒合             |
| woven                              | 編織               |
| woven fabric                       | 織物               |
| wrapping test                      | 纏繞試驗             |
| wrinkle                            | 皺紋               |
| wrought alloy                      | 鍛造用合金            |
| wrought iron                       | 熟鐵               |
| wrought steel                      | 熟鋼               |
| Wulff construction                 | 烏爾夫構造            |
| Wulff net                          | 烏爾夫網圖            |
| wurtzite structure                 | 織鋅礦結構            |
| wustite                            | 方鐵礦 { FeO }      |

# X

|  |                   |
|--|-------------------|
| Xantal alloys                                | 鋁青銅合金             |
| xanthation                                   | 黃酸化               |
| xanthine oxidase                             | 黃花色精氧化酶；黃嘌呤氧化酶    |
| X-constituent                                | X 組成物             |
| xenocryst                                    | 捕虜結晶              |
| xenograft                                    | 異種植體              |
| xenolite                                     | 重矽線石              |
| xenolith                                     | 捕虜岩               |
| xenon (Xe)                                   | 氙                 |
| xerogel                                      | 幹凝膠               |
| xerography                                   | 全錄印法；全錄影印術        |
| X-ray  | X 光；X 射線          |
| X-ray absorbtion                             | X 光吸收；X 射線吸收      |
| X-ray absorption near edge structure (XANES) | X 射線吸收近邊結構        |
| X-ray absorption spectroscopy (XAS)          | X 射線吸收光譜學         |
| X-ray diffraction                            | X 光繞射；X 射線繞射      |
| X-ray diffraction method                     | X 光繞射法；X 射線繞射法    |
| X-ray diffraction micrography                | X 光繞射顯微術          |
| X-ray diffraction topography                 | X 光繞射拓樸學；X 光繞射形貌學 |
| X-ray energy dispersive spectroscopy (XEDS)  | X 射線能量散佈光譜學       |
| X-ray fluorescence analysis                  | X 光螢光分析           |
| X-ray fluorescence spectroscopy              | X 射線螢光譜           |
| X-ray inspection                             | X 射線檢驗            |
| X-ray lithography                            | X 光微影             |
| X-ray photoelectron spectroscopy (XPS)       | X 光光電子能譜儀         |
| X-ray photometer                             | X 光光度計            |
| X-ray reflection                             | X 射線反射            |
| X-ray reflectivity                           | X 射線反射率           |
| X-ray scattering                             | X-射線散射            |

|                          |          |
|--------------------------|----------|
| X-ray spectrography      | X 光攝譜術   |
| X-ray spectrometer       | X 光譜計    |
| X-ray spectrometry (XRS) | X 光能譜分析儀 |
| X-ray spectroscopy       | X 射線光譜學  |

# Y

|                                      |   |
|--------------------------------------|---|
| Y-alloy                              | Y 合金                                      |
| yellow brass                         | [黃色]黃銅                                    |
| yellow cake                          | 黃餅 { U3O8 }                               |
| yellow iron ore                      | 黃鐵礦；黃鐵華                                   |
| yenite                               | 矽鈣鐵礦                                      |
| yield                                | 產率；產量；降伏                                  |
| yield point                          | 降伏點                                       |
| yield ratio                          | 降伏比                                       |
| yield strength                       | 降伏強度                                      |
| Yorcalbro                            | 約卡波鋁黃銅 { 含<br>76%Cu · 2%Al · 其餘<br>為 Zn } |
| Yorkalnic                            | 約卡尼鋁青銅 { 含<br>91%Cu · 7%Al ·<br>2%Ni }    |
| Young's modulus                      | 楊氏係數；楊氏模數                                 |
| ytterbium (Yb)                       | 鐿   |
| yttrium (Y)                          | 釷   |
| yttrium aluminium<br>garnet (YAG)    | 釷鋁柘榴石                                     |
| yttrium iron garnet<br>(YIG)         | 釷鐵柘榴石                                     |
| yttrium stabilized<br>zirconia (YSZ) | 釷安定氧化鋯                                    |

# Z

|                             |                    |
|-----------------------------|--------------------|
| zaffre                      | 鈷藍                 |
| zamak                       | 薩馬克合金 { 一系列鋅壓鑄合金 } |
| z-average chain length      | z-平均鏈長             |
| z-average molecular weight  | z-平均分子量            |
| zee                         | Z 型料               |
| zein                        | 玉米蛋白               |
| Zener-Holloman equation     | 齊納-霍羅曼關係式 { 熱機加工 } |
| zeolite                     | 沸石                 |
| zero emission vehicle (ZEV) | 零排放車輛              |
| zero phonon                 | 零聲                 |
| Ziegler's polyethylene      | 齊格勒聚乙烯             |
| Ziegler's process           | 齊格勒製程              |
| zig-zag dislocation         | 鋸齒形差排              |
| zigzag structure            | 鋸齒型結構 ; 拉鍊型結構      |
| zinc (Zn)                   | 鋅                  |
| zinc blende structure       | 閃鋅礦結構              |
| zinc equivalent             | 鋅當量                |
| zinc sulfate                | 硫酸鋅                |
| zinc-air battery            | 鋅-空氣電池             |
| zinc-air system             | 鋅-空氣系統             |
| zinc-aluminum alloy         | 鋅鋁合金               |
| zinc-coated steel           | 鍍鋅鋼                |
| zinc-duralumin              | 合鋅杜拉鋁              |
| zinc-rich primer            | 富鋅底漆               |
| zircaloy                    | 依佳洛 { 一種鋳合金 }      |
| zircon                      | 鋳英石 ; 鋳英砂 ; 鋳石     |
| zircon flour                | 鋳英石粉               |
| zircon porcelain            | 鋳瓷器                |
| zircon sand                 | 鋳砂                 |
| zirconia                    | 氧化鋳                |

|                                |               |
|--------------------------------|---------------|
| zirconiated tungsten electrode | 鋳鎢電極          |
| zirconium (Zr)                 | 鋳             |
| zirconium alloy                | 鋳合金           |
| zirconium copper               | 鋳銅合金          |
| zonal structure                | 分區結構          |
| zone                           | 帶 ; 區域 ; 晶帶   |
| zone I diffusion               | 帶域 I 擴散       |
| zone II diffusion              | 帶域 II 擴散      |
| zone III diffusion             | 帶域 III 擴散     |
| zone axis                      | 晶帶軸           |
| zone boundary                  | 晶帶界           |
| zone electrophoresis           | 帶域電泳          |
| zone levelling                 | 帶熔均化          |
| zone of plane                  | 平面晶帶軸         |
| zone refining                  | 帶熔精煉法 ; 區域精煉法 |
| Z-section                      | Z 型料          |
| zwitterion                     | 兩性離子 ; 偶極離子   |
| zyglo inspection method        | 螢光檢驗法         |

## 其他

|  |  |
|--|--|
| 1-decanol  | 1-癸醇   |
| 2-chloroethenyldichloroarsine                                      | 2-氯乙烯基二氯砷酸<br>{ 路易士毒氣 }                        |
| 3-(4,5-dimethylthiazol-2-yl)-2,5-diphenyltetrazolium bromide (MTT) | 溴化-3-(4,5-二甲基-2-噻唑)-2,5-二苯基四氮唑 { 細胞存活率檢定法用試劑 } |
| $\beta$ -cordierite  | $\beta$ -堇青石                                   |
| $\beta$ -eucryptite  | $\beta$ -鋰霞石                                   |
| $\beta$ -spodumene   | $\beta$ -鋰輝石                                   |
| $\gamma$ -loop   | 月形 $\gamma$ 區                                  |
| $\epsilon$ -caprolactone   | 聚己內酯   |
| $\rho$ -dioxanone  | 寡糖結晶化  |



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