

表 2 論文中の術語の書き方例

1) 表題に用いる術語は不明りような省略語は用いない

たとえば“……脱酸, 脱硫作用……”とし, “……脱O, 脱S……”は不可

- (表題例) 1. 不適當…転炉における脱Pについて
 適 当…スラグ塩基度と酸素吹錬条件による転炉の脱リン速度の変化について
2. 不適當…ステンレス鋼の機械的性質
 適 当…18-8 ステンレス鋼の機械的性質におよぼす Nb, Ti および Mo の影響

2) 本文で最初に述べる術語は内容の十分理解できる親切な表現を用いること

たとえば“……生じた hercynite (FeO·Al₂O₃) は……”
 “平衡定数 K, GIBBS の自由エネルギー G は……”
 “マグネタイト (Fe₃O₄) を N₂ を含む CO で還元した結果, Fe₃O₄ は……”

3) 本文で繰り返し用いる場合は化学記号, その他のすでに認められた省略記述でよい

たとえば溶鋼中成分は C, Mn で, スラグ中の成分は (Mn) などで表わす.
 (学振製鋼19委員会: 化学熱力学における慣用記号および呼称) (1960) [丸善]
 また, たとえば文中に「オーステナイト」の語が多数出てくるときは, その最初のところで「オーステナイト (γ)」として以下「γ」を用いてよい.

4) 日本語として慣用されている語 (たとえば, キルド鋼, インゴット, クリープ, スラグなど) はカナ書きとしてよい. ただし, 十分慣用されていない語は原語を書き添える.

(たとえば, フォーミング (foaming), パージング (purging), フラッターリング (fluttering), スカルピング (scalping))

5) 省略的記述の例

18Ni-22Fe 合金	} 18-8 ステンレス鋼の場合は慣用によつて Cr, Ni 省略
Ni-Cr-Mo 鋼	
Ferro-Si-Zr	フェロアロイの場合を表わす
5% nital, picral など	化学記号表示の必要はない
JIS-SUS 31	AISI, DIN, En その他同様
HB 100, HRC 50	ブリネル, ロックウェルC硬さ
N _{acid sol}	酸可溶窒素

6) 式の書き方例

$$\left(R_{\alpha} + \frac{D_{\alpha}}{K_{\alpha} \cdot L} \right)^2 = \frac{2 \cdot D_{\alpha} \cdot C_{0\alpha}}{C_{Fe} \cdot \rho_{\alpha} \cdot \alpha \cdot L^2} \cdot t + \left(\frac{D_{\alpha}}{K_{\alpha} \cdot L} \right)^2$$

7) 図の書き方例

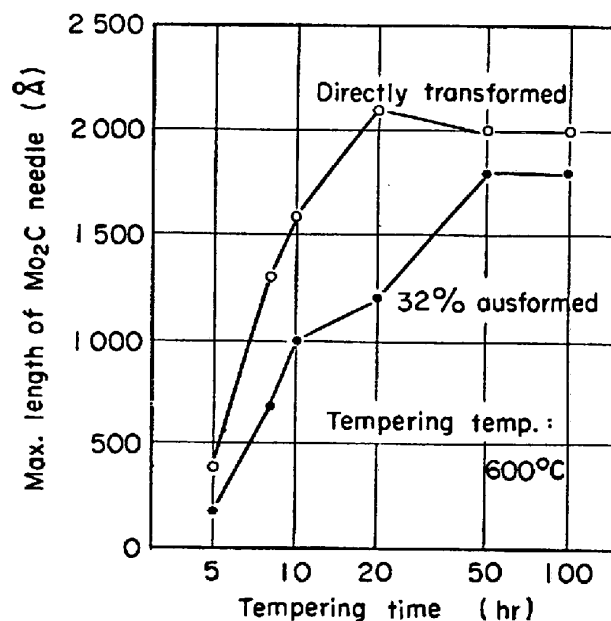


Fig. 5. Growth of Mo₂C needle crystal during isothermal tempering at 600°C, showing difference between ausformed and directly transformed specimens (alloy M1).

表 3 文 献 略 记 例

雜誌名	略 記	雜誌名	略 記
Acta Crystallographica	Acta Cryst.	Comptes Rendus Hebdomadaires des Seances de l'Academie des Sciences	Compt. Rend.
Acta Metallurgica	Acta Met.	Corrosion	Corrosion
Advancement of Science	Advancement Sci.	Corrosion et Anti-Corrosion	Corros. Anti-Corros.
Advances in Physics	Advan. Phys.	Corrosion Science	Corros. Sci.
AIChE (American Institute of Chemical Engineering)	AIChE	Corrosion Technology	Corros. Technol.
Aluminium	Aluminium	Discussions of the Faraday Society	Disc. Farad. Soc.
American Ceramic Society Bulletin	Amer. Ceram. Soc. Bull.	Doklady Akademii Nauk S. S. S. R.	Dokl. Akad. Nauk SSSR
American Foundrymen's Society, Preprint	Amer. Found. Soc. Preprint	Electrical Journal	Elect. J.
American Institute of Mining, Metallurgical and Petroleum Engineers	AIME	Electrical Review	Elect. Rev.
Blast Furnace, Coke Oven & Raw Materials Committee, Proceedings	Blast Furn. Coke Oven & Raw Mat. Comm. Proc.	Electronic Engineering	Electronic Eng.
Electric Furnace Steel Conference, Proceedings	Elect. Furn. Steel Conf. Proc.	Electroplating and Metal Finishing	Electroplating Metal Finishing
Proceedings National Open-Hearth Committee	Proc. Nat. O-H Comm.	Engineering	Engineering
Proceedings Symposia Series	Proc. Symposia Series	Fizika Metallov i Metallouedenie	Fizika Metal.
American Iron and Steel Institute Annual Statistical Report	Amer. Iron Steel Inst. Ann. Stat. Rep.	Foundry	Foundry
Contributions to the Metallurgy of Steel	Contrib. Met. Steel	Foundry Trade Journal	Foundry Trade J.
Steel Products Manual	Steel Prod. Man.	Fortschritte der Physik	Fortschritte Physik
American Journal of Physics	Amer. J. Phys.	Giesserei	Giesserei
American Journal of Science	Amer. J. Sci.	Giessereitechnik	Giessereitechnik
American Mineralogist	Amer. Mineralogist	Handbuch der Physik	Handb. Physik
American Society for Metals Preprint	ASM	Industrial Chemist	Indust. Chem.
Review of Metal Literature	Preprint Review	Industrial Heating	Indust. Heat.
American Society for Testing Materials	ASTM	Industrial and Engineering Chemistry	Indust. Eng. Chem.
Bulletin	Bulletin	Industry Week	Indust. Week
Preprint	Preprint	Iron Age	Iron Age
Special Technical Publication	Special Publ.	Iron and Steel	Iron Steel
Analyst	Analyst	Iron and Steel Engineer	Iron Steel Eng.
Analytica Chimica Acta	Anal. Acta	Iron and Steel Institute, Special Reports	Iron Steel Inst. Spec. Rep.
Analytical Chemistry	Anal. Chem.	Izvestiya Vysshikh Uchebnykh Zavedenii Chernaya Metallurgiya	Izv. VUZov, Cher. Met.
Annalen der Physik	Ann. Physik	Jernkontorets Annaler	Jernkont. Ann.
Annales des Mines	Ann. Mines	Journal of the American Ceramic Society	J. Amer. Ceram. Soc.
Anti Corrosion-Method and Materials	Anti Corros.	Journal of the American Chemical Society	J. Amer. Chem. Soc.
Applied Scientific Research	Appl. Sci. Res.	Journal of the American Society of Naval Engineers	J. Amer. Soc. Nav. Eng.
Archiv für das Eisenhüttenwesen	Arch. Eisenhüttenw.	Journal of Applied Chemistry	J. Appl. Chem.
Atomics	Atomics	Journal of Applied Mechanics	J. Appl. Mech.
Australian Journal of Applied Science	Aus. J. Appl. Sci.	Journal of Applied Physics	J. Appl. Phys.
Australian Journal of Chemistry	Aus. J. Chem.	Journal of The Australian Institute of Metals	J. Aus. Inst. Metals
Australian Journal of Physics	Aus. J. Phys.	Journal of Chemical Physics	J. Chem. Phys.
Battelle Technical Review	Battelle Tech. Rev.	Journal of the Chemical Society	J. Chem. Soc.
Blast Furnace and Steel Plant	Blast Furn. Steel Pl.	Journal de Chimie Physique	J. Chim. Phys.
British Corrosion Journal	Brit. Corros. J.	Journal of Composite Materials	J. Compos. Mat.
British Chemical Engineering	Brit. Chem. Eng.	Journal of the Electrochemical Society	J. Electrochem. Soc.
British Iron and Steel Research Association, Reports	Brit. Iron Steel Res. Assoc. Rep.	Journal of Electron Microscopy	J. Electron Microsc.
British Journal of Applied physics	Brit. J. Appl. Phys.	Journal of Franklin Institute	J. Franklin Inst.
British Journal of Nondestructive Testing	Brit. J. Nondestruct. Test.	Journal of the Institute of Fuel	J. Inst. Fuel
British Standard Institution	Brit. Stand. Inst.	Journal of the Institute of Metals	J. Inst. Metals
British Standards Handbook	B. S. Handb.	Journal of the Institution of Electrical Engineers	J. Inst. Elect. Eng.
Specifications for Aircraft Materials	Specif. Aircraft Mat.	Journal of the Institution of Production Engineers	J. Inst. Prod. Eng.
British Welding Journal	Brit. Weld. J.	Journal of the Iron and Steel Institute	JISI
Bulletin American Physical Society	Bull. Amer. Phys. Soc.	Journal of the Less-Common Metals	J. Less-Common Metals
Bulletin Canadian Institute of Mining and Metallurgy	Bull. Can. Inst. Min. Met.	Journal of Materials	J. Mat.
Canadian Journal of Chemistry	Can. J. Chem.	Journal Materials Science	J. Mat. Sci.
Canadian Journal of Physics	Can. J. Phys.	Journal of Mechanical Laboratory	J. Mech. Lab.
Canadian Journal of Technology	Can. J. Technol.	Journal of the Mechanics and Physics of Solids	J. Mech. Phys. Solids
Chemical Engineering Science	Chem. Eng. Sci.	Journal of Metals	J. Metals
		Journal of Nuclear Materials	J. Nucl. Mat.
		Journal of the Physical Society of Japan	J. Phys. Soc. Japan

雜誌名	略記	雜誌名	略記
Journal of Physics	J. Phys.	S. A. E. Journal	S. A. E. J.
Journal of the Physics and Chemistry of Solids	J. Phys. Chem. Solids	Science Abstracts	Sci. Abs.
Journal de Physique et le Radium	J. Phys. Radium	Scripta Metallurgica	Script. Met.
Journal of Research of the National Bureau of Standards	J. Res. Nat. Bur. Stand.	Sheet Metal Industries	Sheet Metal Ind.
Journal of Scientific Instruments	J. Sci. Instrum.	Solid State Physics	Solid St. Phys.
Light Metals	Light Metals	Stahl und Eisen	Stahl u. Eisen
Light Metals Age	Light Metals Age	Stal'	Stal'
Materialprüfung	Materialprüfung	Stal in English	Stal in Eng.
Materials and Methods	Mat. Method.	Steel	Steel
Materials Evaluation	Mat. Eval.	Steel Processing	Steel Processing
Materials Protection	Mat. Protect.	Steel Review	Steel Rev.
Materials Research & Standards	Mat. Res. Stand.	Steel Times	Steel Times
Mechanical Transactions	Mech. Trans.	Transactions of the American Foundrymen's Society	Trans. Amer. Found. Soc.
Memoires Scientifique de la Revue de Metallurgie	Mem. Sci. Rev. Met.	Transactions of the American Institute of Electrical Engineers	Trans. Amer. Inst. Elect. Eng.
Metal Age	Metal Age	Transactions of the American Institute of Mining, Metallurgical and Petroleum Engineers	Trans. AIME
Metal Bulletin	Metal Bull.	Transactions of the American Society of Mechanical Engineers	Trans. ASME
Metal Finishing	Metal Finishing	Transactions of the American Society for Metals	Trans. ASM
Metal Finishing Journal	Metal Finishing J.	Transactions of the Australian Institute of Metals	Trans. Aus. Inst. Metals
Metal Forming	Metal Form.	Transactions of the British Ceramic Society	Trans. Brit. Ceram. Soc.
Metal Industry	Metal Ind.	Transactions of the Canadian Institute of Mining and Metallurgy	Trans. Can. Inst. Min. Met.
Metal & Materials and Metallurgical Reviews	Metal Mat. Met. Rev.	Transactions of the Electrochemical Society	Trans. Electrochem. Soc.
Metal Progress	Metal Prog.	Transactions of the Faraday Society	Trans. Faraday Soc.
Metal Science Journal	Metal Sci. J.	Transactions of the Institute of Metal Finishing	Trans. Inst. Metal Finishing
Metal Treating	Metal Treatg.	Transactions of the Institution of Chemical Engineers	Trans. Inst. Chem. Eng.
Metal Treatment and Drop Forging	Metal Treat. Drop Forg.	Transactions of Institution of Mining and Metallurgy	Trans. Inst. Min. Met.
Metall	Metall	Transactions of the Iron and Steel Institute of Japan	Trans. ISIJ
Metalloberfläche	Metalloberfläche	Transactions of the Japan Institute of Metals	Trans. JIM
Metallurg	Metallurg	Transactions of the Metallurgical Society of AIME	Trans. Met. Soc. AIME
Metallurgia	Metallurgia	Transactions of the Royal Society of Canada	Trans. Roy. Soc. Can.
Metallurgia Italiana	Metallurgia Ital.	United States Bureau of Mines Bulletin	U. S. Bur. Mines Bull.
Metallurgical Reports C.N.R.M.	Met. Rep. CNRM	Information Circular	Inf. Circ.
Metallurgical Review	Metallurgical Rev.	Mineral Industry Survey	Min. Indust.
Metallurgical Transactions	Met. Trans.	Minerals Yearbook	Min. Yearbook
Metals Review	Metals Rev.	Reports of Investigations	Rep. Invest.
Mitteilungen aus dem Max-Planck Institut für Eisenforschung	Mitt. Max-Planck Inst. Eisenforsch.	Verein Deutscher Ingenieure Zeitschrift	VDI-Zschft.
Modern Metals	Modern Metals	Welding Journal	Welding J.
Nature	Nature	Welding and Metal Fabrication	Weld. Metal Fab.
Naturwissenschaften	Naturwissenschaften	Werkstoffe und Korrosion	Werkstoffe Korrosion
Neue Hütte	Neue Hütte	Wire and Wire Products	Wire and Wire Products
Non-Destructive Testing	Non-Destruct. Test.	Yearbook of the American Iron and Steel Institute	Yearbook Amer. Iron Steel Inst.
Philosophical Magazine	Phil. Mag.	Yearly Proceedings of the Association of Iron and Steel Engineers	Yearly Proc. Assoc. Iron Steel Eng.
Philosophical Transaction of the Royal Society	Phil. Trans. Roy. Soc.	Zeitschrift für Elektrochemie	Z. Elektrochem.
Physica	Physica	Zeitschrift für Erzbergbau und Metallhüttenwesen	Z. Erz. Met.
Physical Review	Phys. Rev.	Zeitschrift für Metallkunde	Z. Metallk.
Physica Status Solidi	Phys. Stat. Solid.	Zeitschrift für Physik	Z. Phys.
Powder Metallurgy Bulletin	Powder Met. Bull.	Zeitschrift für Physikalische Chemie	Z. Phys. Chem.
Proceedings of the American Society for Testing Materials	Proc. ASTM	Zeitschrift für Wissenschaftliche Mikroskopie und für Mikroskopische Technik	Z. Wiss. Mikrosk.
Proceedings, Australasian Institute of Mining and Metallurgy	Proc. Aus. Inst. Min. Met.	Zhur. Fiz. Khim.	Zhur. Fiz. Khim.
Proceedings of the Institution of Electrical Engineers	Proc. Inst. Elect. Eng.	Zhur. Tekn. Fiz.	Zhur. Tekn. Fiz.
Proceedings, Institution of Mechanical Engineers	Proc. Inst. Mech. Eng.		
Proceedings of the Japan Academy	Proc. Japan Acad.		
Proceedings, Metal Powder Association	Proc. Metal Powder Assoc.		
Proceedings of the Physical Society	Proc. Phys. Soc.		
Proceedings of the Royal Canadian Institute	Proc. Roy. Can. Inst.		
Proceedings of the Royal Institution of Great Britain	Proc. Roy. Inst.		
Proceedings of the Royal Society	Proc. Roy. Soc.		
Proceedings of the Society of Experimental Stress Analysis	Proc. Soc. Exper. Stress Anal.		
Review of Scientific Instruments	Rev. Sci. Inst.		
Reviews of Modern Physics	Rev. Mod. Phys.		
Revue de l'Aluminium	Rev. Aluminium		
Revue de Metallurgie	Rev. Mét.		