

# Abbreviations

atmosphere..... atm  
 atomic percent..... at.%  
 body-centered cubic ..... bcc  
 body-centered tetragonal ..... bct  
 boiling point..... B.P.  
 Boltzmann constant .....  $k$   
 Celsius..... °C  
 close-packed hexagonal ..... cph  
 cubic centimeters..... cm<sup>3</sup>  
 Curie temperature..... T<sub>C</sub>  
 degree (angular)..... °  
 differential scanning  
   calorimetry..... DSC  
 differential thermal  
   analysis..... DTA  
 double close-packed  
   hexagonal..... dcph  
 electromotive force ..... emf  
 enthalpy.....  $H$   
 entropy.....  $S$   
 face-centered cubic ..... fcc  
 face-centered tetragonal..... fct  
 Fahrenheit..... °F  
 gas ..... g or G

gas constant .....  $R$   
 Gibbs energy .....  $G$   
 gram ..... g  
 gram atom..... g-atom  
 Guinier-Preston ..... GP  
 heat capacity.....  $C_p$   
 high temperature ..... HT  
 hour ..... h  
 joule ..... J  
 kelvin..... K  
 key paper (in reference lists) ..... \*  
 liquid ..... L  
 logarithm (base 10)..... log  
 logarithm (base e)..... ln  
 low temperature ..... LT  
 maximum ..... max  
 megapascal..... MPa  
 melting point..... M.P.  
 millimicron (nanometer)..... nm  
 minimum..... min  
 minute (time)..... min  
 minute (angular) ..... '  
 mole ..... mol  
 nanometer..... nm

Néel temperature..... T<sub>N</sub>  
 parts per billion ..... ppb  
 parts per million..... ppm  
 percent..... %  
 phase diagram (presence of)..... #  
 pressure ..... P  
 rare earth ..... RE  
 room temperature..... RT  
 second (time) ..... s  
 second (angular)..... ''  
 selected-area  
   electron diffraction..... SAD  
 solid..... s or S  
 sublimation point..... S.P.  
 temperature .....  $T$   
 transformation temperature for  
   partitionless transformation .... T<sub>0</sub>  
 transmission electron  
   microscopy ..... TEM  
 triple point..... T.P.  
 unknown..... \*  
 versus..... vs  
 weight percent..... wt.%  
 X-ray diffraction..... XRD

# General References

[Elliott]: R.P. Elliott, *Constitution of Binary Alloys, First Supplement*, originally published by McGraw-Hill, reprinted and available from Genium Publishing Corporation, 1145 Catalyn Street, Schenectady, New York 12303 (1965).  
 [Hansen]: M. Hansen and K. Anderko, *Constitution of Binary Alloys*, originally published by McGraw-Hill, reprinted and available from Genium Publishing Corporation, 1145 Catalyn Street, Schenectady, New York 12303 (1958).  
 [Hultgren,B]: R. Hultgren, P.D. Desai, D.T. Hawkins, M. Gleiser, and K.K. Kelley, *Selected Values of the Thermodynamic Properties of Binary Alloys*, American Society for Metals, Metals Park, OH (1973).  
 [Hultgren,E]: R. Hultgren, P.D. Desai, D.T. Hawkins, M. Gleiser, K.K. Kelley, and D.D. Wagman, *Selected Values of the Thermodynamic Properties of the Elements*, American Society for Metals, Metals Park, OH (1973).  
 [King1]: H.W. King, "Crystal Structures of the Elements at 25 °C," *Bull.*

*Alloy Phase Diagrams*, 2(3), 401-402 (1981).  
 [King2]: H.W. King, "Temperature-Dependent Allotropic Structures of the Elements," *Bull. Alloy Phase Diagrams*, 3(2), 275-276; 3(3), 308 (1982).  
 [King3]: H.W. King, "Pressure-Dependent Allotropic Structures of the Elements," *Bull. Alloy Phase Diagrams*, 4(4), 449-450 (1983).  
 [Landolt]: Landolt-Börnstein Tables, New Series, Group II, *Structure Data of Elements and Intermetallic Compounds*, Vol. 6, Springer-Verlag, New York (1971).  
 [Massalski]: T.B. Massalski, J.L. Murray, L.H. Bennett, and H. Baker, *Binary Alloy Phase Diagrams*, Vol. 2, American Society for Metals, Metals Park, OH, 2167-2182 (1986).  
 [Melt]: "Melting Points of the Elements," *Bull. Alloy Phase Diagrams*, 7(6), 601-602 (1986).  
 [Metals]: *Metals Handbook, Metallurgy, Structures and Phase Diagrams*, Vol. 8, 8th ed., American Society for Metals, Metals Park, OH (1973).

[Moffatt]: W.G. Moffatt, *Handbook of Binary Phase Diagrams*, Genium Publishing Corporation, Schenectady, New York (1978) and Supplements.  
 [Pearson1]: W.B. Pearson, *Handbook of Lattice Spacings and Structures of Metals and Alloys*, Vol. 1, Pergamon, New York (1958).  
 [Pearson2]: W.B. Pearson, *Handbook of Lattice Spacings and Structures of Metals and Alloys*, Vol. 2, Pergamon, New York (1967).  
 [Pearson3]: P. Villars and L.D. Calvert, *Pearson's Handbook of Crystallographic Data for Intermetallic Phases*, Vol. 1, 2, and 3, American Society for Metals, Metals Park, OH (1985).  
 [Shunk]: F.A. Shunk, *Constitution of Binary Alloys, Second Supplement*, originally published by McGraw-Hill, reprinted and available from Genium Publishing Corporation, 1145 Catalyn Street, Schenectady, New York 12303 (1969).