

# Abbreviations

atmosphere . . . . . atm	grams per cubic centimeter . . . . . g/cm <sup>3</sup>	mole . . . . . mol
atomic percent . . . . . at.%	Guinier-Preston . . . . . GP	mole percent . . . . . mol%
body-centered cubic . . . . . bcc	heat capacity . . . . . C <sub>p</sub>	nanometer . . . . . nm
body-centered tetragonal . . . . . bct	high temperature . . . . . HT	nanosecond . . . . . ns
boiling point . . . . . B.P.	hour . . . . . h	Néel temperature . . . . . T <sub>N</sub>
Boltzmann constant . . . . . <i>k</i>	joule . . . . . J	parts per billion . . . . . ppb
Celsius . . . . . °C	kelvin . . . . . K	parts per million . . . . . ppm
close-packed hexagonal . . . . . cph	kilocycles per second (kilohertz) . . . kHz	pascal . . . . . Pa
cubic centimeter . . . . . cm <sup>3</sup>	kilogram . . . . . kg	percent . . . . . %
Curie temperature . . . . . T <sub>C</sub>	kilograms per cubic meter . . . . . kg/m <sup>3</sup>	pressure . . . . . <i>P</i>
degree (angular) . . . . . °	kilograms per second . . . . . kg/s	radio frequency . . . . . RF
differential scanning calorimetry . . . . . DSC	liquid . . . . . L	rare earth . . . . . RE
differential thermal analysis . . . . . DTA	logarithm (base 10) . . . . . log	Roentgen . . . . . R
double close-packed hexagonal . . . dcph	logarithm (base <i>e</i> ) . . . . . ln	room temperature . . . . . RT
electromotive force . . . . . emf	low temperature . . . . . LT	second (time) . . . . . s
electron probe microanalysis . . . EPMA	maximum . . . . . max	second (angular) . . . . . "
electron volt . . . . . eV	megapascal . . . . . MPa	selected-area electron diffraction . . . . . SAD
enthalpy . . . . . <i>H</i>	melting point . . . . . M.P.	scanning electron microscope . . . . SEM
entropy . . . . . <i>S</i>	meter . . . . . m	solid . . . . . s or S
face-centered cubic . . . . . fcc	micron (micrometer) . . . . . μm	sublimation point . . . . . S.P.
face-centered tetragonal . . . . . fct	milligram . . . . . mg	temperature . . . . . <i>T</i>
Fahrenheit . . . . . °F	millimeter . . . . . mm	transformation temperature for partitionless transformation . . . . . T <sub>O</sub>
gas . . . . . g or G	millimicron (nanometer) . . . . . nm	transmission electron microscopy . TEM
gas constant . . . . . <i>R</i>	millisecond . . . . . ms	triple point . . . . . T.P.
Gibbs energy . . . . . <i>G</i>	millivolt . . . . . mV	unknown . . . . . *
gram . . . . . g	minimum . . . . . min	versus . . . . . vs
gram atom . . . . . g-atom	minute (time) . . . . . min	volume percent . . . . . vol.%
	minute (angular) . . . . . '	weight percent . . . . . wt.%
		x-ray diffraction . . . . . XRD