

Introduction to the Thermodynamics of Materials

Third Edition

David R. Gaskell

Preliminaries

■ Settings

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■ Physical Constants Needed for Problems

■ Heat Capacities

The generic heat capacity

$$C_p = a + \frac{bT}{10^3} + \frac{c10^5}{T^2} ;$$

The heat capacities of various elements and compounds are

$$C_{pAg} = C_p /. \{a \rightarrow 21.30, b \rightarrow 8.54, c \rightarrow 1.51\};$$

$$C_{pAgI} = C_p /. \{a \rightarrow 30.50, b \rightarrow 0, c \rightarrow 0\};$$

$$C_{pAl} = C_p + \frac{20.75 T^2}{10^6} /. \{a \rightarrow 31.38, b \rightarrow -16.4, c \rightarrow -3.6\};$$

$$C_{pAlI} = C_p /. \{a \rightarrow 31.76, b \rightarrow 0, c \rightarrow 0\};$$

- General::spell11: Possible spelling error: new symbol name "CpAlI" is similar to existing symbol "CpAl".

$$C_{pAl2O3} = C_p /. \{a \rightarrow 117.49, b \rightarrow 10.38, c \rightarrow -37.11\};$$

$$C_{pCaO} = C_p /. \{a \rightarrow 50.42, b \rightarrow 4.18, c \rightarrow -8.49\};$$

$$C_{pCaTiO3} = C_p /. \{a \rightarrow 127.39, b \rightarrow 5.69, c \rightarrow -27.99\};$$

$$C_{pCoO} = C_p /. \{a \rightarrow 626.34, b \rightarrow 91.21, c \rightarrow -200.83\};$$

$$C_{pCr} = C_p + \frac{2.26 T^2}{10^6} /. \{a \rightarrow 21.76, b \rightarrow 8.98, c \rightarrow -0.96\};$$

$$C_{pCr2O3} = C_p /. \{a \rightarrow 119.37, b \rightarrow 9.30, c \rightarrow -15.65\};$$

Thermodynamics Of Materials

AW Rasmussen



Thermodynamics Of Materials:

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