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so many fake sites. this is the first one which worked! Many thanks

Introduction to the Thermodynamics of Materials

Third Edition

David R. Gaskell

Preliminaries

■ Settings

Off (Default) : [eg:all]

■ Physical Constants Needed For Problems

■ Heat Capacities

The generic heat capacity

$$C_p = a + \frac{bT}{10^3} + \frac{cT^2}{10^6} + \frac{d}{T^2}$$

The heat capacities of various elements and compounds are

$$CpAl(s) = Cp / (a = 21.30, b = 8.34, c = -1.51)$$

$$CpAg(s) = Cp / (a = 39.50, b = 0, c = 0)$$

$$CpAl_2O_3 = Cp + \frac{28.75T^2}{10^4} / (a = 21.38, b = -16.4, c = -3.4)$$

$$CpAl_2O_3 = Cp / (a = 21.76, b = 0, c = 0)$$

--- General Comment: Periodic table and other data are available from the NIST website for calculating specific heats.

$$CpAl_2O_3 = Cp / (a = 117.45, b = 10.38, c = -37.11)$$

$$CpCuO = Cp / (a = 50.42, b = 4.28, c = -8.49)$$

$$CpCu_2O = Cp / (a = 127.39, b = 5.49, c = -27.99)$$

$$CpCu_2S = Cp / (a = 626.24, b = 92.21, c = -200.83)$$

$$CpFe = Cp + \frac{2.24T^2}{10^4} / (a = 21.76, b = 8.36, c = -0.96)$$

$$CpFe_2O_3 = Cp / (a = 119.37, b = 9.36, c = -15.45)$$

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