

Chapter 1

- 1.1 Equation 1.7 is the integrated form of Fourier's Law of Conduction in one dimension for constant thermal conductivity and steady-state operation. If a more accurate model is desired, the variation of thermal conductivity with temperature may be accounted for by using

$$k = k_0(1 + C_1(T - T_0))$$

where k is thermal conductivity, k_0 is thermal conductivity at some reference temperature T_0 , C_1 is a constant, and T is temperature. Determine k_0 and C_1 for copper if $T_0 = 650$ K. Use the graphs in this chapter to obtain the necessary data.

Solution:

$k = k_0(1 + C_1(T - T_0))$ to fit data on copper. At $T_0 = 650$ K, $k_0 = 360$ W/(m·K) from Figure 1.3. At 200 K, $k_0 = 415$ W/(m·K) also from Figure 1.3. Second point is needed and selected arbitrarily. Substitute into the equation:

$$k = k_0(1 + C_1(T - T_0))$$

$$415 = 360(1 + C_1(200 - 650))$$

$$C_1 = \frac{(415/360 - 1)}{-450} = -3.4 \times 10^{-4} \text{ so the equation becomes}$$

$$k = 360(1 - 3.4 \times 10^{-4}(T - 650)) \quad [\text{SI units}]$$

- 1.2 Repeat Problem 1 for glycerin if $T_0 = 170^\circ\text{F}$.

Solution:

$k = k_0(1 + C_1(T - T_0))$ to fit data on glycerin. At $T_0 = 170 + 460 = 630^\circ\text{R}$, $k_0 = 0.17$ BTU/(hr·ft²·°R). At 590°R, $k_0 = 0.18$ BTU/(hr·ft²·°R) selected arbitrarily. Both data points from Figure 1.4. Substitute into the equation:

$$k = k_0(1 + C_1(T - T_0))$$

$$0.18 = 0.17(1 + C_1(590 - 630))$$

$$C_1 = \frac{(0.18/0.17 - 1)}{(590 - 630)} = -1.47 \times 10^{-3} \text{ so the equation becomes}$$

$$k = 0.17(1 - 1.47 \times 10^{-3}(T - 630)) \quad [\text{Eng units}]$$

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