

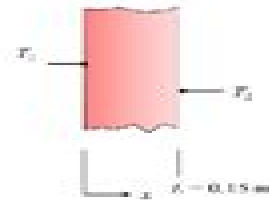
**Solutions Manual for Fundamentals of Heat and Mass Transfer, 8e  
Bergman, Lavine, Incropera, DeWitt (All Chapters Download link at the  
end of this file)**

**PROBLEM 1.1**

**KNOWN:** Temperature distribution in wall of Example 1.1.

**FIND:** Heat fluxes and heat rates at  $x = 0$  and  $x = L$ .

**SCHEMATIC:**



**ASSUMPTIONS:** (1) One-dimensional conduction through the wall, (2) constant thermal conductivity, (3) no internal thermal energy generation within the wall.

**PROPERTIES:** Thermal conductivity of wall (given):  $k = 1.7 \text{ W/m} \cdot \text{K}$ .

**ANALYSIS:** The heat flux in the wall is by conduction and is described by Fourier's law,

$$q_x'' = -k \frac{dT}{dx} \quad (1)$$

Since the temperature distribution is  $T(x) = a + bx$ , the temperature gradient is

$$\frac{dT}{dx} = b \quad (2)$$

Hence, the heat flux is constant throughout the wall, and is

$$q_x'' = -k \frac{dT}{dx} = -kb = -1.7 \text{ W/m} \cdot \text{K} \times (-1000 \text{ K/m}) = 1700 \text{ W/m}^2 \quad \leftarrow$$

Since the cross-sectional area through which heat is conducted is constant, the heat rate is constant and is

$$q_x = q_x'' \times (W \times H) = 1700 \text{ W/m}^2 \times (1.2 \text{ m} \times 0.5 \text{ m}) = 1020 \text{ W} \quad \leftarrow$$

Because the heat rate into the wall is equal to the heat rate out of the wall, steady-state conditions exist.  $\leftarrow$

**COMMENTS:** (1) If the heat rates were not equal, the internal energy of the wall would be changing with time. (2) The temperatures of the wall surfaces are  $T_1 = 1400 \text{ K}$  and  $T_2 = 1250 \text{ K}$ .

# Foundations Of Heat Transfer Wiley Solution Manual

**Frank P.. Incropera,David P. DeWitt**



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