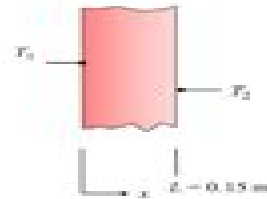


PROBLEM 1.1

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 $T_2 = 1250 \text{ K}$.

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A. J. Baker



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