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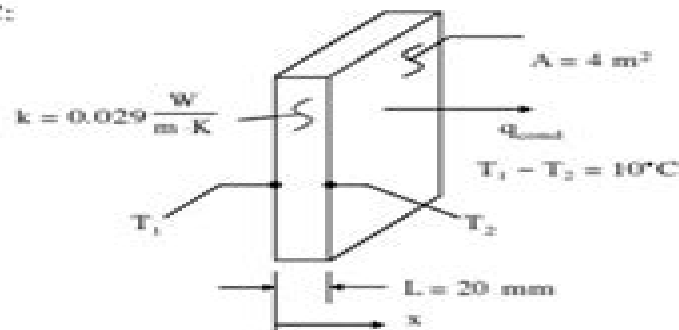
Fundamentals of Heat and Mass Transfer Bergman 7th Edition Solutions Manual

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KNOWN: Thermal conductivity, thickness and temperature difference across a sheet of rigid extruded insulation.

FIND: (a) The heat flux through a $2 \text{ m} \times 2 \text{ m}$ sheet of the insulation, and (b) The heat rate through the sheet.

SCHEMATIC:



ASSUMPTIONS: (1) One-dimensional conduction in the x -direction, (2) Steady-state conditions, (3) Constant properties.

ANALYSIS: From Equation 1.2 the heat flux is

$$q_x'' = -k \frac{dT}{dx} = k \frac{T_1 - T_2}{L}$$

Solving,

$$q_x'' = 0.029 \frac{\text{W}}{\text{m} \cdot \text{K}} \times \frac{10 \text{ K}}{0.02 \text{ m}}$$

$$q_x'' = 14.5 \frac{\text{W}}{\text{m}^2}$$

The heat rate is

$$q_x = q_x'' \cdot A = 14.5 \frac{\text{W}}{\text{m}^2} \times 4 \text{ m}^2 = 58 \text{ W}$$

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Lavine, Frank P. Incropera, David P.
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