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SOLUTION: The energy equation is $Q_{ku} + Q_r = Q_{u,L}$ $Q_{u,0} = (M cp) f (T_f$ From Figure Pr.1.16(a), we have T_f Then $0 < T_f < L$). = 800C. and. $T_f = 680C$.

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ASSUMPTIONS: (1) Steady-state conditions, (2) Negligible heat transfer from the wire by natural convection or radiation.

ANALYSIS: If all of the electric energy is transferred by convection to the air, the following equality must be satisfied.

$P_{elec} = I^2 R = I^2 \rho \frac{L}{A} = 3.14 \times 10^{-5} \text{ m}^2 \times 52 \text{ m}$

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FIND: (a) The heat flux through a 2 mm thick sheet of rigid extruded insulation. Slideshare uses cookies to improve functionality and performance, and to provide you with relevant advertising.

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The heat loss through the wall (qk) ASSUMPTIONS One dimensional heat flow The system has reached steady state

SKETCH $L = 0.2 \text{ m}$ $T_i = 20^\circ\text{C}$ $T_o = 5^\circ\text{C}$ $q = k \frac{\Delta T}{L}$ $H = 3 \text{ m}$

SOLUTION The rate of heat loss through the wall is given by

Equation (1.2) $q_k = AK \frac{\Delta T}{L} = (10 \text{ m})(3 \text{ m}) \frac{1.2 \text{ W/(m K)}}{0.2 \text{ m}} (20^\circ\text{C} - 5^\circ\text{C}) = 4500 \text{ W}$ COMMENTS

An Instructor's Solutions Manual to Accompany

Temperature represents the amount of thermal energy available, whereas heat flow represents the movement of thermal energy from

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place to place.

Introduction to the Principles of Heat Transfer

The reader should internalize the meaning of the terminology and physical principles associated with heat transfer; The reader should be able to delineate pertinent transport phenomena for any process or system involving heat transfer; The reader should be able to use requisite inputs for computing heat transfer rates and/or material temperatures

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