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Principles of Heat Transfer Solutions Manual 7th Edition Frank Kreith , Raj M. Manglik , Mark S. Bohn  
PRINCIPLES OF HEAT TRANSFER was first published in 1959, and since then it has grown to be

considered a classic within the field, setting the standards for coverage and organization within all other Heat Transfer texts.

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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  $0.0 T_f L$  ). =  $800C$ . 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.

$P_{elec} = I^2 R = I^2 \rho \frac{L}{A} = I^2 \rho \frac{L}{\pi D^2/4}$  where  $A = \pi D^2/4$   $( ) 0.0005m$   
 $0.02m \times \pi \times 3.14 \times 10^{-5} m$

*Principles Of Heat Transfer Solution*

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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

*Introduction to the Principles of Heat Transfer*

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

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FIND: (a) The heat flux through a 2 ... PROBLEM 1.1

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

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*Principles of Heat Transfer Solutions Manual | Heat ...*

The heat loss through the wall ( $q_k$ ) ASSUMPTIONS One dimensional heat flow The system has reached steady state SKETCH  $L = 0.2 \text{ m}$   $T_i = 20^\circ\text{C}$   $T_o = -5^\circ\text{C}$   $q_k L$   $0 \text{ m}$   $H = 3 \text{ m}$

SOLUTION The rate of heat loss through the wall is given by Equation (1.2)  $q_k = AK L (\Delta T)$   $q_k = (10 \text{ m})(3 \text{ m}) 1.2 \text{ W}/(\text{m K})(0.2 \text{ m} (20^\circ\text{C} - (-5^\circ\text{C})))$   $q_k = 4500 \text{ W}$  COMMENTS

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