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(a) Calculate the heat flux through the insulated sheet. Here, ΔT is the temperature difference, L is the length of the insulated sheet along the direction of heat flow, and k is the thermal conductivity. Substitute for L , 0.02 m for L , and for k .

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This is consistent with the fact that the surface heat flux in the

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positive y -direction is given by the following equation: From the sketch, the temperature gradient is positive. Therefore, the heat flux is negative. The heat transfer is in the negative y -direction, the plate is being heated by the fluid.

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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

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convection to the air, the following equality must be satisfied.

$PE_{elec} = \frac{I^2 R}{A} \Delta T$ where $A = \pi D L = \pi (0.0005 \text{ m}) (0.02 \text{ m}) \times 3.14 \times 10^3 = 52 \text{ m}^2$. Hence, $#####$ $#####$ $()$

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FIND: (a) The heat flux through a 2 \square PROBLEM 1.1 KNOWN:
Thermal conductivity, thickness and temperature difference across a

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$dT/dx = -q/k$, is a constant, and hence the temperature

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distribution is linear. The heat flux must be constant under one-dimensional, steady-state conditions; and k is approximately constant if it depends only weakly on temperature. The heat flux and heat rate when the outside wall temperature is $T_2 = -15^\circ\text{C}$

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Assumptions 1 Steady operating conditions exist. 2 Convection heat transfer coefficient is uniform. 3 Heat transfer by radiation is negligible. 4 Heat losses from the boiler are negligible.

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