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Introduction to Heat Transfer | Heat Transfer

Problems on Fin Heat Transfer- 1 *Solutions Manual for Heat and Mass Transfer, Fundamentals and Applications, Cengel*

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Lecture 13: Two-dimensional Steady State Heat

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(a) Calculate the heat flux through the insulated sheet. Here,

is the temperature difference, is the length of the insulated

sheet along the direction of heat flow, and k is the thermal

conductivity. Substitute for, 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 convection to the air, the following equality must be satisfied.

$P_{elec} = \dot{h}A(T_s - T_\infty)$ where $A = \pi D L = \pi(0.0005\text{ m})(0.02\text{ m}) = 3.14 \times 10^{-5}\text{ m}^2$. Hence, $\dot{h} = \frac{P_{elec}}{A(T_s - T_\infty)}$

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Reviewer: JohnDoe2016 - favorite favorite favorite favorite favorite - May 31, 2017 Subject: Solution Manual

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