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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. Therefore, the heat flux through the insulation sheet is.

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ANALYSIS: The convection heat rate from the cylinder per unit length of the cylinder has the form  $q = h ( ? D ) ( T_s ? T_f )$  and solving for the heat transfer convection coefficient, find  $h = q / . ? D ( T_s ? T_f )$  Substituting numerical values for the water and air situations: Water  $h_w = Air h_a = 28 \times 103 W/m ? \times 0.030m (90-25 ) C 400 W/m ? \times 0.030m (90-25 ) C = 4,570 W/m 2 ? K = 65 W/m 2 ? K. < < COMMENTS: Note that the air velocity is 10 times that of the water flow, yet ...$

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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. Slideshare uses cookies to improve functionality and performance, and to provide you with relevant advertising.

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Chapter 1 Basics of Heat Transfer 1-2 Heat and Other Forms of Energy 1-8C The rate of heat transfer per unit surface area is called heat flux  $q_s$ . It is related to the rate of heat transfer by  $q_s = \dot{Q} / A$  &  $4Q \text{ qdA}$ . 1-9C Energy can be transferred by heat, work, and mass. An energy transfer is heat transfer when its driving force is temperature difference.

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First, convert the 10 degrees Celsius to Kelvin. Next, apply Fourier's Law for heat conduction to solve for heat flux.  $k=0.029 \text{ W/m}\cdot\text{K}$ ,  $\Delta T= 283.15\text{K}$ , and  $L=0.02\text{m}$ . This will give you  $410.5675 \text{ W/m}^2$ . Part b: Multiply your heat flux by the area and you get  $1642.3\text{W}$ .

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Find the constants of integration by applying the boundary conditions. First boundary condition: At  $x = 0$ , convection from the left surface to the hot fluid is equal to the conduction heat transfer. Second boundary condition: At  $x = L$ , convection from the right surface to the cold fluid is equal to the conduction heat transfer.

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