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Calculate the heat flux through the insulated sheet. Here,  $\Delta T$  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  $\Delta T = 100^\circ\text{C}$  for  $\Delta T$ ,  $L = 0.02\text{ m}$  for  $L$ , and  $k = 0.04\text{ W/m}\cdot\text{K}$  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  $q' = h (\pi D) (T_s - T_\infty)$  and solving for the heat transfer convection coefficient, find  $h = q' / (\pi D (T_s - T_\infty))$ . Substituting numerical values for the water and air situations: Water  $h_w = 400\text{ W/m}^2 \cdot \text{K}$ ; Air  $h_a = 28 \times 10^3\text{ W/m}^2 \cdot \text{K}$ . << 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  $q$ . It is related to the rate of heat transfer by  $q = \dot{Q}/A$ . 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.  $k=0.029 \text{ W/m-K}$ ,  $\Delta T= 283.15\text{K}$ , 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 , convection from the left surface to the hot fluid is equal to the conduction heat transfer. Second boundary condition: At , convection from the right surface to the cold fluid is equal to the conduction heat transfer.

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