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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, 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 $q = h (D) (T_s - T_\infty)$ and solving for the heat transfer convection coefficient, find $h = q / (D (T_s - T_\infty))$ Substituting numerical values for the water and air situations:
Water $h_w = 28 \times 10^3 \text{ W/m}^2 \cdot \text{K}$
Air $h_a = 28 \times 10^3 \text{ W/m}^2 \cdot \text{K} \times 0.030 \text{ m} / (90 - 25) \text{ C} = 4,570 \text{ W/m}^2 \cdot \text{K}$
 $K = 65 \text{ W/m}^2 \cdot \text{K}$. < <
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

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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 $q = \frac{Q}{A}$ & $Q = qA$. 1-9C Energy can be transferred by heat, work, and mass. An energy transfer is heat transfer when its driving force is temperature difference.

~~Heat Transfer ; 2nd Edition—catatanabimanyu~~

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 W/m^2 . Part b: Multiply your heat flux by the area and you get 1642.3W .

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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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