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## Solutions

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  $\Delta T = 100$  for  $\Delta T$ ,  $L = 0.02$  m for  $L$ , and  $k = 0.1$  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  $q = h ($

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$D) (T_s - T_\infty)$  and solving for the heat transfer convection coefficient, find  $h = \frac{q}{A (T_s - T_\infty)}$

Substituting numerical values for the water and air situations: Water  $h_w = \frac{400 \text{ W/m}^2 \times 0.030 \text{ m}}{0.030 \text{ m} (90 - 25) \text{ }^\circ\text{C}}$  Air  $h_a = \frac{28 \times 10^3 \text{ W/m}^2 \times 0.030 \text{ m}}{0.030 \text{ m} (90 - 25) \text{ }^\circ\text{C}}$   
 $= 4,570 \text{ W/m}^2 \text{ }^\circ\text{C}$   $K = 65 \text{ W/m}^2 \text{ }^\circ\text{C}$   $K < <$

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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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

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$L = 0.02\text{m}$ . 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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