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### Introduction To Heat Transfer Solutions

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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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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### Solution Manual An Introduction to Mass and Heat Transfer ...

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

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