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

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The number of heat flow lanes (M) = $2 \cdot 10 = 20$ The number of curvilinear squares in each lane (N) = 12 Therefore, the shape factor for this object is $S = M \cdot N \cdot 20 \cdot 12 = 1.67$ The rate of heat transfer...

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5.1 PRINCIPLES OF OPERATION OF A HEAT EXCHANGER

$L = 0.2 \text{ m}$ $T_i = 20 \text{ }^\circ\text{C}$ $T_o = -5 \text{ }^\circ\text{C}$ $q_k = k L \Delta T / H = 3 \text{ m}$ SOLUTION The rate of heat loss through the wall is given by Equation (1.2) $q_k = AK L (T_i - T_o) / H$ $q_k = (10 \text{ m})(3 \text{ m}) 1.2 \text{ W}/(\text{m K}) / 0.2 \text{ m} (20 \text{ }^\circ\text{C} - (-5 \text{ }^\circ\text{C}))$ $q_k = 4500 \text{ W}$ COMMENTS Since the inside surface temperature is higher than the outside temperature heat is transferred from the inside of the wall to the outside of the wall.

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heat actually exchanged to the heat that would be exchanged if the fin was at the temperature of the base, is: $\eta = \frac{q_{\text{actual}}}{q_{\text{ideal}}} = \frac{h A_c \int_0^L (T - T_\infty) dx}{h A_c (T_b - T_\infty) L}$ with $m = \sqrt{h P / k A_c}$ (5.1.8) For fins of different shapes, the value of m changes. For example, for circular needle fins (Figure 5.1.4): $m = \sqrt{4 h / d}$ (5.1.9)

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The heat capacity of a substance is the amount of heat required to raise the temperature of the system $1 \text{ }^\circ\text{C}$ and has the units $\text{J}/^\circ\text{C}$. For a pure substance with mass m , the expression can be re-written as: $q = m \cdot c \cdot \Delta T$

Principles Of Heat And M

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