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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:  $\eta_a = \tanh(ml) / ml$  with  $m =$

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2 h  $\rho$  e (5.1.8) For fins of different shapes, the value of  $m$  changes. For example, for circular needle fins (Figure 5.1.4):  $m = 4 h \rho d$  (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  $1^\circ\text{C}$  and has the units  $\text{J}/^\circ\text{C}$ . For a pure substance with mass  $m$ , the expression can be re-written as:  $q =$

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$m \cdot c \cdot \Delta T$

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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.  $k=0.029$  W/m-K,  $\Delta T= 283.15$ K, and  $L=0.02$ m. This will give you  $410.5675$  W/m<sup>2</sup>. Part b: Multiply your heat flux by the area and you get  $1642.3$ W.

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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  $S = \frac{M}{N} = \frac{20}{12} = 1.67$  The rate of heat transfer...

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### Principles Of Heat And Mass

Principles of Heat Transfer. Heat is transferred to and from objects -- such as you and your home -- via three processes: conduction, radiation, and convection. Conduction is heat traveling through a solid material. On hot days, heat is conducted into your home through the roof, walls, and windows.

#### 5.1 PRINCIPLES OF OPERATION OF A HEAT EXCHANGER

$L = 0.2 \text{ m}$   $T_i = 20^\circ\text{C}$   $T_o = -5^\circ\text{C}$   $q_k L = 0 \text{ m}$   $H = 3 \text{ m}$  SOLUTION The rate of heat loss through the wall is given by Equation (1.2)  $q_k = \frac{A k L (\Delta T)}{L}$   $q_k = (10 \text{ m})(3 \text{ m}) \frac{1.2 \text{ W/(m K)}}{0.2 \text{ m}} (20^\circ\text{C} - (-5^\circ\text{C}))$   $q_k = 4500 \text{ W}$  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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