

Heat and Other Forms of Energy

1-9C The rate of heat transfer per unit surface area is called heat flux $\dot{q}$. It is related to the rate of heat transfer by $\dot{Q} = \int_A \dot{q} dA$.

1-9C Energy can be transferred by heat, work, and mass. An energy transfer is heat transfer when its driving force is temperature difference.

1-10C Thermal energy is the sensible and latent forms of internal energy, and it is referred to as heat in daily life.

1-11C For the constant pressure case. This is because the heat transfer to an ideal gas is $mC_p dT$ at constant pressure and $mC_v dT$ at constant volume, and C_p is always greater than C_v .

1-12 A cylindrical resistor on a circuit board dissipates 0.6 W of power. The amount of heat dissipated in 24 h, the heat flux, and the fraction of heat dissipated from the top and bottom surfaces are to be determined.

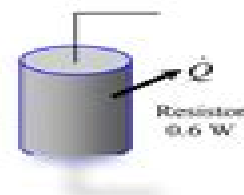
Assumptions Heat is transferred uniformly from all surfaces.

Analysis (a) The amount of heat this resistor dissipates during a 24-hour period is

$$Q = \dot{Q}\Delta t = (0.6 \text{ W})(24 \text{ h}) = 14.4 \text{ Wh} = 51.84 \text{ kJ} \quad (\text{since } 1 \text{ Wh} = 3600 \text{ Ws} = 3.6 \text{ kJ})$$

(b) The heat flux on the surface of the resistor is

$$A_s = 2 \frac{\pi D^2}{4} + \pi DL = 2 \frac{\pi (0.4 \text{ cm})^2}{4} + \pi (0.4 \text{ cm})(1.5 \text{ cm}) = 0.251 + 1.885 = 2.136 \text{ cm}^2$$



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Terry C. Jones



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