

Heat and Other Forms of Energy

1.48C The rate of heat transfer per unit surface area is called heat flux, q . It is related to the rate of heat transfer by $q = \frac{1}{A} \frac{dQ}{dt}$.

1.49C Energy can be transferred by heat, work, and mass. An energy transfer is heat transfer when the driving force is temperature difference.

1.50C Thermal energy is the sensible and latent forms of internal energy, and it is related to us heat in daily life.

1.51C For the constant pressure case, this is because the heat transfer to an ideal gas is $m c_p \Delta T$ at constant pressure and $m c_v \Delta T$ at constant volume, and c_p is always greater than c_v .

1.52 A cylindrical resistor in 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 the resistor dissipates during a 24-hour period is

$$Q = \dot{Q} \Delta t = (0.6 \text{ W})(24 \text{ h}) = 14.4 \text{ Wh} = 51.8 \text{ kJ} \quad \text{since } 1 \text{ Wh} = 3600 \text{ Wh} = 3.6 \text{ kJ}$$

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

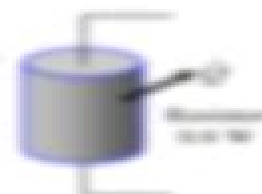
$$q_s = \frac{\dot{Q}}{A} = \frac{0.6 \text{ W}}{A} = \frac{0.6 \text{ W}}{\frac{\pi D^2}{4}} = \frac{0.6 \text{ W}}{\frac{\pi (4 \text{ mm})^2}{4}} = 4.775 \text{ W/cm}^2 = 4.775 \times 10^4 \text{ W/m}^2$$

$$q_{\text{top}} = \frac{\dot{Q}_{\text{top}}}{A_{\text{top}}} = \frac{0.2 \text{ W}}{\frac{\pi D^2}{4}} = 1.589 \text{ W/cm}^2$$

(c) Assuming the heat transfer coefficient to be uniform, heat transfer is proportional to the surface area. Then the fraction of heat dissipated from the top and bottom surfaces of the resistor becomes

$$\frac{\dot{Q}_{\text{top}}/\text{W}}{\dot{Q}_{\text{res}}/\text{W}} = \frac{A_{\text{top}}/\text{cm}^2}{A_{\text{res}}/\text{cm}^2} = \frac{\frac{\pi D^2}{4}}{\pi D L} = 0.091 \quad \text{or } 9.1\%$$

Discussion Heat transfer from the top and bottom surfaces is small relative to that transferred from the side surface.



Heat Transfer Cengel 3rd Edition Solution Manual

Lindon C. Thomas



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de emphasizes mathematical techniques but preserves physical interpretation of heat transfer fundamentals and modeling of heat transfer phenomena For example in the analysis of fins actual finned cylinders were cut apart fin dimensions were measures and presented for analysis in example problems and in practice problems The chapter introducing convection heat transfer describes and presents the traditional coffee pot problem practice problems The chapter on convection heat transfer in a closed conduit gives equations to model the flow inside an internally finned duct The end of chapter problems proceed from short and simple confidence builders to difficult and lengthy problems that exercise hard core problems solving ability Now in its third edition this text continues to fulfill the author s original goal to write a readable user friendly text that provides practical examples without overwhelming the student Using drawings sketches and graphs this textbook does just that PDF files of the Solutions Manual are available upon qualifying course adoptions Solutions Manual to Accompany Heat Transfer Bhalchandra V. Karlekar,Robert M. Desmond,1982 **Solutions Manual 'Fundamentals of Heat Transfer'** Lindon C. Thomas,1980

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