406 Marilesh

(05 Mairks)

Sixth Semester B.E. Degree Examination, Dec.2013/Jan.2014 Heat and Mass Transfer

Time: 3 hrs.

Max. Marks:100

Note: I. Answer FIVE full questions, selecting at least TWO questions from each part. 2. Use of heat transfer data book is permitted.

PART - A

- a. Explain briefly the mechanism of conduction, convection and radiation heat transfer.
 - With sketches, write down the mathematical representation of three commonly used different types of boundary conditions for one dimensional heat equation in rectangular coordinates.
 - c. A plate of thickness 'L' whose one side is insulated and the other side is maintained at a temperature T₁ is exchanging heat by convection to the surrounding area at a temperature T₂, with atmospheric air being the outside medium. Write mathematical formulation for one dimensional, steady state heat transfer, without heat generation. (06 Marks)
- 2 a. An electric cable of 10mm diameter is to be laid in atmosphere at 20°C. The estimated surface temperature of the cable due to heat generation is 65°C. Find the maximum percentage increase in heat dissipation, when the wire is insulated with rubber having K = 0.155 W/mK. Take h = 8.5 W/m²K. (06 Marks)
 - b. Differentiate between the effectiveness and efficiency of fins. (04 Marks)
 - c. In order to reduce the thermal resistance at the surface of a vertical plane wall (50 × 50cm), 100 pin fins (1 cm diameter, 10cm long) are attached. If the pin fins are made of copper having a thermal conductivity of 300 W/mK and the value of the surface heat transfer coefficient is 15 W/m²K, calculate the decrease in the thermal resistance. Also calculate the consequent increase in heat transfer rate from the wall if it is maintained at a temperature of 200°C and the surroundings are at 30°C.
- 3 a. Show that the temperature distribution in a body during Neotonian habiting or cooling is given by $\frac{T-T_*}{T_*-T_*} = \frac{\theta}{\theta_*} = \mathrm{Exp} \bigg(\frac{-h\,A_*t}{\rho\mathrm{CV}} \bigg)$. (06 Marks)
 - b. The steel ball bearings (K = 50 W/mK, α = 1.3 × 10⁻⁵ m²/sec), 40 mm at the first are heated to a temperature of 650°C. It is then quenched in a oil bath at 50°C, where the heat transfer coefficient is estimated to be 300 W/m²K. Calculate:
 - The time required for bearings to reach 200°C.

transfer coefficient at x = L.

- ii) The total amount of heat removed from a bearing during this time and
- The instantaneous heat transfer rate from the bearings, when they are first immersed in oil bath and when they reach 200°C.
- With reference to fluid flow over a flat plate, discuss the concept of velocity boundary and thermal boundary layer, with necessary sketches.

 (05 Marks)
 - b. The exact expression for local Nusselt number for the laminar flow along a surface is given by Nu_x = h_x x / k = 0.332 R_{ex} P_e^{1/3}. Show that the average heat transfer coefficient from x = 0 to x = L over the length 'L' of the surface is given by 2h_L where h_L is the local heat

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