

### PROBLEM 7.15

**KNOWN:** Temperature, pressure and Reynolds number for air flow over a flat plate of uniform surface temperature.

**FIND:** (a) Rate of heat transfer from the plate, (b) Rate of heat transfer if air velocity is doubled and pressure is increased to 1.0 atm.

**SCHEMATIC:**



**ASSUMPTIONS:** (1) Steady-state conditions, (2) Uniform surface temperature, (3) Negligible radiation, (4)  $Re_{\infty,2} = 5 \times 10^5$ .

**PROPERTIES:** Table A-4, Air ( $T_f = 348\text{K}$ , 1 atm):  $k = 0.0299 \text{ W/m}\cdot\text{K}$ ,  $\text{Pr} = 0.70$ .

**ANALYSIS:** (a) The heat rate is

$$q = \overline{h}_L (w \times L) (T_s - T_\infty).$$

Since the flow is laminar over the entire plate for  $Re_L = 4 \times 10^4$ , it follows that

$$\overline{Nu}_L = \frac{\overline{h}_L L}{k} = 0.664 \overline{Re}_L^{1/2} \Pr^{1/3} = 0.664 (40,000)^{1/2} (0.70)^{1/3} = 117.9.$$

$$\text{Hence } \overline{h}_L = 117.9 \frac{k}{L} = 117.9 \frac{0.0299 \text{ W/m}\cdot\text{K}}{0.2\text{m}} = 17.6 \text{ W/m}^2\cdot\text{K}$$

$$\text{and } q = 17.6 \frac{W}{m^2\cdot K} (0.1\text{m} \times 0.2\text{m}) (100 - 50)^\circ\text{C} = 17.6 \text{ W.} \quad <$$

(b) With  $p_2 = 10 p_1$ , it follows that  $\rho_2 = 10 \rho_1$  and  $v_2 = v_1/10$ . Hence

$$\overline{Re}_{L,2} = \left( \frac{u_{\infty,2} L}{v} \right)_2 = 2 \times 10 \left( \frac{u_{\infty,1} L}{v} \right)_1 = 20 \overline{Re}_{L,1} = 8 \times 10^5$$

and mixed boundary layer conditions exist on the plate. Hence

$$\frac{\overline{Nu}_L}{\overline{Nu}_L} = \frac{\overline{h}_L L}{k} = \left( 0.037 \overline{Re}_L^{4/5} - 871 \right) \Pr^{1/3} = \left[ 0.037 \times (8 \times 10^5)^{4/5} - 871 \right] (0.70)^{1/3}$$

$$\overline{Nu}_L = 961.$$

$$\text{Hence, } \overline{h}_L = 961 \frac{0.0299 \text{ W/m}\cdot\text{K}}{0.2\text{m}} = 143.6 \text{ W/m}^2\cdot\text{K}$$

$$q = 143.6 \frac{W}{m^2\cdot K} (0.1\text{m} \times 0.2\text{m}) (100 - 50)^\circ\text{C} = 143.6 \text{ W.} \quad <$$

**COMMENTS:** Note that, in calculating  $Re_{L,2}$ , ideal gas behavior has been assumed. It has also been assumed that  $k$ ,  $\mu$  and  $\text{Pr}$  are independent of pressure over the range considered.

# Solution Manual For Incropera

**Frank P. Incropera,David P. DeWitt**

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D'Auria,2017-05-18 Thermal Hydraulics of Water Cooled Nuclear Reactors reviews flow and heat transfer phenomena in nuclear systems and examines the critical contribution of this analysis to nuclear technology development With a strong focus on system thermal hydraulics SYS TH the book provides a detailed yet approachable presentation of current approaches to reactor thermal hydraulic analysis also considering the importance of this discipline for the design and operation of safe and efficient water cooled and moderated reactors Part One presents the background to nuclear thermal hydraulics starting with a historical perspective defining key terms and considering thermal hydraulics requirements in nuclear technology Part Two addresses the principles of thermodynamics and relevant target phenomena in nuclear systems Next the book focuses on nuclear thermal hydraulics modeling covering the key areas of heat transfer and pressure drops then moving on to an introduction to SYS TH and computational fluid dynamics codes The final part of the book reviews the application of thermal hydraulics in nuclear technology with chapters on V V and uncertainty in SYS TH codes the BEPU approach and applications to new reactor design plant lifetime extension and accident analysis This book is a valuable resource for academics graduate students and professionals studying the thermal hydraulic analysis of nuclear power plants and using SYS TH to demonstrate their safety and acceptability Contains a systematic and comprehensive review of current approaches to the thermal hydraulic analysis of water cooled and moderated nuclear reactors Clearly presents the relationship between system level top down analysis and component level phenomenology bottom up analysis Provides a strong focus on nuclear system thermal hydraulic SYS TH codes Presents detailed coverage of the applications of thermal hydraulics to demonstrate the safety and acceptability of nuclear power plants

*Chapters 8-14* Frank P. Incropera,David P. DeWitt,1996 **Student Study Guide to accompany Introduction to Heat, 4th Edition and Fundamentals of Heat,**

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