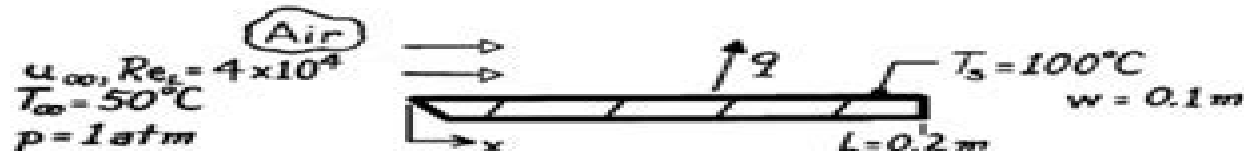


### PROBLEM 7.15

**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 10 atm.

**SCHEMATIC:**



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

**PROPERTIES:** Table A-4, Air ( $T_f = 345\text{K}$ , 1 atm):  $k = 0.0299\text{ W/m}\cdot\text{K}$ ,  $Pr = 0.70$ .

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

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

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

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

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

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

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

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

and mixed boundary layer conditions exist on the plate. Hence

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

$$\frac{Nu_L}{Nu_L} = 961.$$

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

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

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

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



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