

$$A_n = \frac{\dot{m}}{\rho_n V_n} = \frac{0.047}{(0.0051)(1500)} = 0.0061 \text{ ft}^2$$

4.12 $V_1 = 1500 \text{ mph} = 1500 \left(\frac{88}{60} \right) = 2200 \text{ ft/sec}$

$$C_p T_1 + \frac{V_1^2}{2} = C_p T_2 + \frac{V_2^2}{2}$$

$$V_2^2 = 2 C_p (T_1 - T_2) + V_1^2$$

$$V_2^2 = 2 (6000)(789.99 - 793.32) + (2200)^2$$

$$V_2 = 6.3 \text{ ft/sec}$$

Note: This is a very small velocity compared to the initial freestream velocity of 2200 ft/sec. At the point in question, the velocity is very near zero, and hence the point is nearly a stagnation point.

4.13 At the inlet, the mass flow of air is

$$\dot{m}_{in} = \rho A V = (3.6391 \times 10^{-4})(20)(2200) = 16.0 \text{ slug/sec}$$

$$\dot{m}_{fuel} = (0.05)(16.01) = 0.8 \text{ slug/sec}$$

$$\text{Total mass flow at exit} = 16.01 + 0.8 = 16.81 \text{ slug/sec}$$

4.14 From problem 4.11,

$$V_n = 1500 \text{ ft/sec}$$

$$T_n = 812.5 \text{ R}$$

Hence,

Mechanics Of Flight Solutions Manual

Wenbin Ji



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