$$A_{n} = \frac{n}{\rho_{n}V_{n}} = \frac{0.047}{(0.0051)(1500)} \approx 0.0061 \text{ ft}^{2}$$

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

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

$$V_2^2 = 2 C_0 (T_1 - T_2) + V_1^2$$

$$V_3^2 = 2 (6000)(389.99 - 793.32) + (2200)^3$$

$$V_2 = 6.3$$
 fb/sec

Note: This is a very <u>small</u> 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

$$\dot{m}_{ab} = \rho AV = (3.6391 \times 10^{-6})(20)(2200) = 16.0/sbug/sec$$

$$m_{\rm dusl} = (0.05)(16.01) - 0.8$$
 shug/sec

Total mass flow at exit = 16.01 + 0.8 = 16.81 slug/sec

4.14 From problem 4.11,

$$V_a = 1500$$
 fb/sec

$$T_a = 812.5R3$$

Hillemore...

## **Mechanics Of Flight Solutions Manual**

**JR Anderson** 

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