## Chapter 11

#### 11.1

(a) 
$$\frac{30}{1.6} = 18.76 \text{ kg}$$

(b) 
$$W = mg = 18.75(9.8) = 183.75 \text{ N}$$

#### 11.2

$$W_{S1} = \rho gV = 7850(9.81)\pi(0.06^2)(0.120) = 104.51 N$$

#### 11.3

(a) 
$$100 \text{ kN/m}^2 = \frac{100 \times 10^3 \text{ N}}{\text{m}^2} \times \frac{0.2248 \text{ lb}}{1.0 \text{ N}} \times \frac{1.0 \text{ m}^2}{1550 \text{ in}^2} = 14.50 \text{ lb/in}^2$$

(b) 
$$30 \text{ m/s} = \frac{30 \text{ m}}{\text{s}} \times \frac{\text{km}}{1000 \text{ m}} \times \frac{36008}{1 \text{ h}} = 1080.24 \text{ km/h}$$
  
(c)  $800 \text{ slugs} = 800 \text{ slugs} \times \frac{14.593 \text{ kg}}{1.0 \text{ slug}} = 11.67 \times 10^3 \text{ kg} = 11.67 \text{ Mg}$   
(d)  $\frac{20 \text{ lb}}{\text{ft}^2} \times \frac{4.448 \text{ N}}{1.0 \text{ lb}} \times \frac{1.0 \text{ ft}^2}{0.092 903 04 \text{ m}^2} = 958 \text{ N/m}^2$ 

(c) 800 slugs = 800 slugs 
$$\times \frac{14.593 \text{ kg}}{1.0 \text{ slug}} = 11.67 \times 10^3 \text{ kg} = 11.67 \text{ Mg}$$

(d) 
$$\frac{20 \text{ lb}}{\text{ft}^2} \times \frac{4.448 \text{ N}}{1.0 \text{ lb}} \times \frac{1.0 \text{ ft}^2}{0.09290304 \text{ m}^2} = 958 \text{ N/m}^2$$

#### 11.4

Second law 
$$F = ma$$

$$\begin{split} F &= \frac{Gm_Am_B}{R^2} \\ ma &= \frac{Gm_Am_B}{R^2} \\ [\mathbf{M}] \begin{bmatrix} L \\ T^2 \end{bmatrix} = \frac{[G][\mathbf{M}][M]}{[L^2]} \\ [G] &= \begin{bmatrix} L^3 \\ \overline{MT^2} \end{bmatrix} \end{split}$$

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**WJ Hussar** 

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