

**Problem 1.21** The equation

$$\sigma = \frac{My}{J}$$

is used in the mechanics of materials to determine normal stresses in beams.

(a) When this equation is expressed in terms of SI base units, M is in newton-meters (N-m), y is in meters (m), and J is in meters to the fourth power (m^4). What are the SI units of σ ?
 (b) If $M = 2000 \text{ N}\cdot\text{m}$, $y = 0.1 \text{ m}$, and $J = 7 \times 10^{-5} \text{ m}^4$, what is the value of σ in U.S. Customary base units?

Solutions:

$$(a) \sigma = \frac{My}{J} = \frac{(\text{N}\cdot\text{m})\cdot(\text{m})}{\text{m}^4} = \frac{\text{N}}{\text{m}^2}$$

$$(b) \sigma = \frac{My}{J} = \frac{(2000 \text{ N}\cdot\text{m})(0.1 \text{ m})}{7 \times 10^{-5} \text{ m}^4} \left(\frac{1 \text{ lb}}{4.448 \text{ N}} \right) \left(\frac{0.2048 \text{ m}}{1 \text{ ft}} \right)^2 \\ = 59,760 \frac{\text{lb}}{\text{in}^2}$$

Problem 1.22 The acceleration due to gravity on the surface of the moon is 1.62 m/s^2 . (a) What would the mass of the C-clamp in Active Example 1.4 be on the surface of the moon? (b) What would the weight of the C-clamp in newtons be on the surface of the moon?**Solutions:**

$$(a) \text{The mass does not depend on location. The mass in kg is:} \\ 0.0272 \text{ slug} \left(\frac{14.29 \text{ kg}}{1 \text{ slug}} \right) = 0.397 \text{ kg} \quad \boxed{\text{mass} = 0.397 \text{ kg}}$$

$$(b) \text{The weight on the surface of the moon is:} \\ W = mg = (0.397 \text{ kg})(1.62 \text{ m/s}^2) = 0.643 \text{ N} \quad \boxed{W = 0.643 \text{ N}}$$

Problem 1.23 The $1 \text{ ft} \times 1 \text{ ft} \times 1 \text{ ft}$ cube of iron weighs 490 lb at sea level. Determine the weight in newtons of a $1 \text{ m} \times 1 \text{ m} \times 1 \text{ m}$ cube of the same material at sea level.

Solutions: The weight density is $\gamma = \frac{490 \text{ lb}}{1 \text{ ft}^3}$.

The weight of the 1 m^3 cube is:

$$w = \gamma V = \left(\frac{490 \text{ lb}}{1 \text{ ft}^3} \right) (1 \text{ m})^3 \left(\frac{1 \text{ in}}{0.02548 \text{ m}} \right)^3 \left(\frac{1 \text{ N}}{0.2248 \text{ lb}} \right) = 77.0 \text{ kN}$$

**Problem 1.24** The area of the Pacific Ocean is $64,186,000$ square miles and its average depth is $12,925 \text{ ft}$. Assume that the weight per unit volume of ocean water is 64 lb/ft^3 . Determine the mass of the Pacific Ocean (a) in slugs; (b) in kilograms.

Solutions: The volume of the ocean is:

$$V = 64,186,000 \text{ mi}^2 \times (12,925 \text{ ft}) \left(\frac{3,280 \text{ ft}}{1 \text{ mi}} \right)^2 = 2.312 \times 10^{19} \text{ ft}^3$$

$$(a) m = \rho V = \left(\frac{64 \text{ lb/ft}^3}{32.2 \text{ slug/ft}^3} \right) (2.312 \times 10^{19} \text{ ft}^3) = 4.60 \times 10^{19} \text{ slugs}$$

$$(b) m = (4.60 \times 10^{19} \text{ slugs}) \left(\frac{14.29 \text{ kg}}{1 \text{ slug}} \right) = 6.71 \times 10^{19} \text{ kg}$$

Problem 1.25 The acceleration due to gravity at sea level is $g = 9.81 \text{ m/s}^2$. The radius of the earth is 6370 km . The universal gravitational constant is $G = 6.67 \times 10^{-11} \text{ N}\cdot\text{m}^2/\text{kg}^2$. Use this information to determine the mass of the earth.

Solutions: Use Eq. (1.3) $m = \frac{Gm_1m_2}{r^2}$. Solve for the mass.

$$m_2 = \frac{gm^2}{G} = \frac{(9.81 \text{ m/s}^2)(6370 \text{ km})^2 \left(\frac{10^3 \text{ m}}{1 \text{ km}} \right)^2}{6.67 \times 10^{-11} \left(\frac{\text{N}\cdot\text{m}^2}{\text{kg}^2} \right)} \\ = 5.9679 \dots \times 10^{24} \text{ kg} = 5.97 \times 10^{24} \text{ kg}$$

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A. Bedford, Wallace L. Fowler

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