



Problem 1.21 The equation

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

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 I is in meters to the fourth power (m^4). What are the SI units of σ ?
- (b) If $M = 2000$ N·m, $y = 0.1$ m, and $I = 7 \times 10^{-5}$ m^4 , what is the value of σ in U.S. Customary base units?

Solution:

$$(a) \quad \sigma = \frac{My}{I} = \frac{(N \cdot m)(m)}{m^4} = \frac{N}{m^3}$$

$$(b) \quad \sigma = \frac{My}{I} = \frac{(2000 \text{ N} \cdot \text{m})(0.1 \text{ m})}{7 \times 10^{-5} \text{ m}^4} \left(\frac{1 \text{ lb}}{4.448 \text{ N}} \right) \left(\frac{0.3048 \text{ m}}{1} \right)^3 \\ = 59,700 \frac{\text{lb}}{\text{ft}^2}$$

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?

Solution:

$$(a) \quad \text{The mass does not depend on location. The mass in kg is } 0.0272 \text{ slug} \left(\frac{14.59 \text{ kg}}{1 \text{ slug}} \right) = 0.397 \text{ kg} \quad \boxed{\text{mass} = 0.397 \text{ kg}}$$

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

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

Solution: The weight density is $\gamma = \frac{490 \text{ lb}}{1 \text{ ft}^3}$.
The weight of the 1 m^3 cube is:

$$W = \gamma V = \left(\frac{490 \text{ lb}}{1 \text{ ft}^3} \right) (1 \text{ m})^3 \left(\frac{1 \text{ ft}}{0.3048 \text{ m}} \right)^3 \left(\frac{1 \text{ N}}{2.2348 \text{ lb}} \right) = 77.0 \text{ kN}$$



Problem 1.24 The area of the Pacific Ocean is $64,186,000$ square miles and its average depth is $12,925$ 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.

Solution: The volume of the ocean is

$$V = (64,186,000 \text{ mi}^2)(12,925 \text{ ft}) \left(\frac{5,280 \text{ ft}}{1 \text{ mi}} \right)^2 = 2.312 \times 10^{19} \text{ ft}^3$$

$$(a) \quad W = \gamma V = \left(\frac{64 \text{ lb/ft}^3}{32.2 \text{ ft/s}^2} \right) (2.312 \times 10^{19} \text{ ft}^3) = 4.60 \times 10^{19} \text{ slugs}$$

$$(b) \quad m = (4.60 \times 10^{19} \text{ slugs}) \left(\frac{14.59 \text{ kg}}{1 \text{ slug}} \right) = 6.71 \times 10^{20} \text{ kg}$$

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

Solution: Use Eq. (1.3) $a = \frac{Gm}{r^2}$. Solve for the mass.

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

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