

CHAPTER 1

- 1.1 An object has a mass of 46 kg and weighs 450 N on a spring scale. Determine the acceleration due to gravity at this location.

$$m = 46 \text{ kg}, W = 450 \text{ N}, g = \frac{W}{m} = \frac{450}{46} = \boxed{9.78 \text{ m/s}^2}$$

- 1.2 Use the Appendix tables to find the conversion factor between gallons per minute (gpm) to cubic feet per second (cfs or ft³/s).

$$\frac{\text{gallons}}{\text{minute}} \cdot \frac{3.785411784 \times 10^{-3}}{2.8316846592 \times 10^{-2}} \cdot \frac{1 \text{ minute}}{60 \text{ s}} \\ \boxed{\text{gpm} \cdot 2.228 \times 10^{-3} = \text{ft}^3/\text{s}}$$

- 1.3 What is the weight in N of 1 ft³ of kerosene?

$$V = 1 \text{ ft}^3; \text{ kerosene Appendix Table A-5, } \rho = 0.823(1.94) \text{ slug/ft}^3; \\ W = mg = \rho V g = 0.823(1.94)(1)(32.2) = 5.14 \text{ lbf}; \quad W = 5.14(4.448) \text{ or} \\ \boxed{W = 22.9 \text{ N}}$$

- 1.4 What is the conversion factor between BTU/hr and horsepower? Use the conversion factors from Appendix Table A.2 to determine the answer.

$$\frac{\text{BTU}}{\text{hr}} \cdot \frac{1 \text{ hr}}{3600 \text{ s}} \cdot \frac{1054}{745.7} = \boxed{3.926 \times 10^{-4} \frac{\text{HP}}{(\text{BTU/hr})}}$$

- 1.5 Water has a density of 1 000 kg/m³. What is its density in lbm/ft³, slug/ft³, and g/cm³?

$$\rho = 1\,000 \text{ kg/m}^3 \text{ (SI);} \quad \rho = \frac{1\,000}{16.01} = \boxed{62.5 \text{ lbm/ft}^3} \\ \rho = \frac{1\,000}{16.01(32.2)} = \boxed{1.94 \text{ slug/ft}^3} \quad \rho = \frac{1\,000}{1\,000} = \boxed{1 \text{ g/cm}^3}$$

- 1.6 The density of Ocean Breeze Shampoo was determined by weighing an object of known volume in air, and again by weighing it while submerged in the liquid. If the object was a 4 cm diameter sphere made of aluminum (specific gravity = 2.7), what is the expected weight of the object while submerged in the shampoo?

$$D = 4 \text{ cm} \quad V = \frac{\pi D^3}{6} = \frac{\pi(0.04)^3}{6} = 3.35 \times 10^{-5} \text{ m}^3 \\ s = 2.7 \text{ for the al} \quad \rho_{\text{liq}} = 1\,121 \text{ kg/m}^3 \text{ from the example} \\ (s\rho_{\text{to}})_{\text{object}} = 2.7(1\,000) = 2\,700 \text{ kg/m}^3$$

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