

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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Table of Contents Solution Manual For William Deen

1. Understanding the eBook Solution Manual For William Deen
 - The Rise of Digital Reading Solution Manual For William Deen
 - Advantages of eBooks Over Traditional Books
2. Identifying Solution Manual For William Deen
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Solution Manual For William Deen
 - User-Friendly Interface
4. Exploring eBook Recommendations from Solution Manual For William Deen
 - Personalized Recommendations
 - Solution Manual For William Deen User Reviews and Ratings
 - Solution Manual For William Deen and Bestseller Lists
5. Accessing Solution Manual For William Deen Free and Paid eBooks
 - Solution Manual For William Deen Public Domain eBooks

- Solution Manual For William Deen eBook Subscription Services
- Solution Manual For William Deen Budget-Friendly Options
- 6. Navigating Solution Manual For William Deen eBook Formats
 - ePub, PDF, MOBI, and More
 - Solution Manual For William Deen Compatibility with Devices
 - Solution Manual For William Deen Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Solution Manual For William Deen
 - Highlighting and Note-Taking Solution Manual For William Deen
 - Interactive Elements Solution Manual For William Deen
- 8. Staying Engaged with Solution Manual For William Deen
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Solution Manual For William Deen
- 9. Balancing eBooks and Physical Books Solution Manual For William Deen
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Solution Manual For William Deen
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Solution Manual For William Deen
 - Setting Reading Goals Solution Manual For William Deen
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Solution Manual For William Deen
 - Fact-Checking eBook Content of Solution Manual For William Deen
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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