

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?

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

White Fluid Mechanics 6th Edition Solution Manual

DJ Losen



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Basic Fluid Mechanics and Hydraulic Machines Zueb Husain, Zulkifly Abdullah, Zainal Alimuddin, 2009-02-27

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Introduction to Food Engineering R. Paul Singh, Dennis R. Heldman, 2008-10-15 This fourth edition of this successful textbook succinctly presents the engineering concepts and unit operations used in food processing in a unique blend of principles with applications. Depth of coverage is very high. The authors use their many years of teaching to present food engineering concepts in a logical progression that covers the standard course curriculum. Both are specialists in engineering and world renowned. Chapters describe the application of a particular principle followed by the quantitative relationships that define the related processes, solved examples and problems to test understanding. Supplemental processes including filtration, sedimentation, centrifugation and mixing. Extrusion processes for foods. Packaging concepts and shelf life of foods. Expanded information on emerging technologies such as high pressure and pulsed electric field. Transport of granular foods and powders. Process controls and measurements. Design of plate heat exchangers. Impact of fouling in heat transfer processes. Use of dimensional analysis in understanding physical phenomena.

Fundamentals of Fluid Mechanics Bruce R. Munson, Donald F. Young, Theodore H. Okiishi, 1998 This student's solutions manual accompanies the main text. Each concept of fluid mechanics is considered in the book in simple circumstances before more complicated features are introduced. The problems are presented in a mixture of SI and US standard units.

Tables for the Hydraulic Design of Pipes, Sewers and Channels D. I. H. Barr, 1998 This new edition again includes the extended range of pipe size that covers European standards as well as those for the newer materials now widely adopted in the UK. The book's main objective is to aid Colebrook-White assessments of resistance in such pipes and in a great variety of free surface circumstances including large rivers.

Water Systems towards New Future Challenges Helena M. Ramos, 2021-03-09 This book comprises components associated with smart water which aims at the exploitation and building of more sustainable and technological water networks towards the water-energy nexus and system efficiency. The implementation of modeling frameworks for measuring the performance based on a set of relevant indicators and data applications and model interfaces provides better support for decisions towards greater sustainability and more flexible and safer solutions. The hydraulic management and structural models represent the most effective and viable way to predict the behavior of the water networks under a wide range of conditions of demand and system failures. The

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Computer Modeling Applications for Environmental Engineers Isam Mohammed Abdel-Magid Ahmed, Mohammed Isam Mohammed Abdel-Magid, 2017-07-06 Computer Modeling Applications for Environmental Engineers in its second edition incorporates changes and introduces new concepts using Visual Basic NET a programming language chosen for its ease of comprehensive usage This book offers a complete understanding of the basic principles of environmental engineering and integrates new sections that address Noise Pollution and Abatement and municipal solid waste problem solving financing of waste facilities and the engineering of treatment methods that address sanitary landfill biochemical processes and combustion and energy recovery Its practical approach serves to aid in the teaching of environmental engineering unit operations and processes design and demonstrates effective problem solving practices that facilitate self teaching A vital reference for students and professional sanitary and environmental engineers this work also serves as a stand alone problem solving text with well defined real work examples and explanations **Scientific and Technical Books and Serials in Print** ,1989 *Books in Print* ,1982 Scientific and Technical Books in Print ,1972 **The British Library General Catalogue of Printed Books, 1986 to 1987** British Library, 1988 **EIT Industrial Review** Donovan Young, 2003-09-18 This guide is written for the afternoon FE EIT Industrial Exam and reviews each topic with numerous example problems and complete step by step solutions End of chapter problems with solutions and a complete sample exam with solutions are provided Topics covered Production Planning and Scheduling Engineering Economics Engineering Statistics Statistical Quality Control Manufacturing Processes Mathematical Optimization and Modeling Simulation Facility Design and Location Work Performance and Methods Manufacturing Systems Design Industrial Ergonomics Industrial Cost Analysis Material Handling System Design Total Quality Management Computer Computations and Modeling Queuing Theory and Modeling Design of Industrial Experiments Industrial Management Information System Design Productivity Measurement and Management 101 problems with complete solutions SI Units Hydraulic Modelling: An Introduction Pavel Novak, Vincent Guinot, Alan Jeffrey, Dominic E. Reeve, 2018-10-24 Modelling forms a vital part of all engineering design yet many hydraulic engineers are not fully aware of the assumptions they make These assumptions can have important consequences when choosing the best model to inform design decisions Considering the advantages and limitations of both physical and

mathematical methods this book will help you identify the most appropriate form of analysis for the hydraulic engineering application in question All models require the knowledge of their background good data and careful interpretation and so this book also provides guidance on the range of accuracy to be expected of the model simulations and how they should be related to the prototype Applications to models include open channel systems closed conduit flows storm drainage systems estuaries coastal and nearshore structures hydraulic structures This an invaluable guide for students and professionals

Applied Mechanics Reviews ,1974 **The British National Bibliography** Arthur James Wells,1994 **The Proceedings of the Fifth Biennial International CODATA Conference, June 28-July 1 1976, Held at the University of Colorado, Boulder, Colorado, USA, at the Invitation of the National Academy of Sciences** Bertrand Dreyfus,1977
CODATA Bulletin CODATA.,1976 Sotheran's Price Current of Literature Henry Sotheran Ltd,1915 **English Mechanics and the World of Science** ,1879

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