

FLUID MECHANICS

- .. the surface tension of water in air is approx. 0.0750 N/m . If the atmospheric pressure is 101 kPa , what is the pressure inside a droplet 0.165 mm in diameter?

For spherical droplets,

$$\Delta P = P_{in} - P_{out}$$

$$\frac{2\sigma}{r} = P_{in} - P_{out}$$

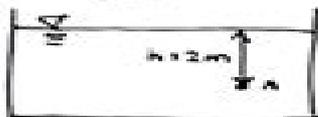
$$P_{in} = P_{out} + \frac{2\sigma}{r}$$

$$= 101 \text{ kPa} + \frac{2 (7.50 \times 10^{-5})}{\frac{1}{2} (16.5 \times 10^{-5})}$$

$$= 101 \text{ kPa} + 1.833 \text{ kPa}$$

$$P_{in} = 102.833 \text{ kPa}$$

2. What is the gage pressure at point A if $h = 2 \text{ m}$ in a tank of water?



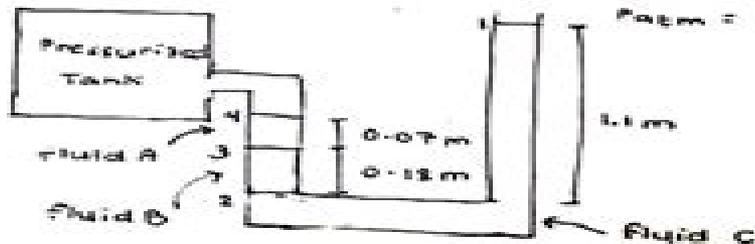
$$P = \rho g h$$

$$= (1000)(9.81)(2 \text{ m})$$

$$= 19,620 \text{ Pa}$$

$$P = 19.62 \text{ kPa}$$

3. Find the pressure in the tank from the manometer reading below:



$$P_{atm} = 100 \text{ kPa}$$

$$\text{fluid A, } \rho_A = 580 \text{ kg/m}^3$$

$$\text{fluid B, } \rho_B = 700 \text{ kg/m}^3$$

$$\text{fluid C, } \rho_C = 1000 \text{ kg/m}^3$$

$$P_2 - P_1 = \rho_C g (z_1 - z_2)$$

$$P_3 - P_2 = \rho_B g (z_2 - z_3)$$

$$P_3 - P_4 = \rho_A g (z_3 - z_4)$$

$$P_4 - P_1 = \Sigma P$$

$$= P_1 + g [\rho_C (z_1 - z_2) + \rho_B (z_2 - z_3) + \rho_A (z_3 - z_4)]$$

$$= 100,000 + (9.81) [1000(1) + 700(0.18) + 580(0.07)]$$

$$P = 108,175.654 \text{ or } P = 108.18 \text{ kPa}$$

Fluid Mechanics Example Problems

CARL J. SCHASCHKE



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2,500 Solved Problems In Fluid Mechanics and Hydraulics Jack B. Evett, Cheng Liu, 1989 This powerful problem solver gives you 2 500 problems in fluid mechanics and hydraulics fully solved step by step From Schaum's the originator of the solved problem guide and students favorite with over 30 million study guides sold this timesaver helps you master every type of fluid mechanics and hydraulics problem that you will face in your homework and on your tests from properties of fluids to drag and lift Work the problems yourself then check the answers or go directly to the answers you need using the complete index Compatible with any classroom text Schaum's 2500 Solved Problems in Fluid Mechanics and Hydraulics is so complete it's the perfect tool for graduate or professional exam review

Fluid Mechanics Carl Schaschke, 2005 This is a collection of problems and solutions in fluid mechanics for students of all engineering disciplines The text is intended to support undergraduate courses and be useful to academic tutors in supervising design projects

Fluid Mechanics and Hydraulics Vedat Batu, 2024-05-27 Fluid Mechanics and Hydraulics Illustrative Worked Examples of Surface and Subsurface Flows presents the basic principles of fluid mechanics through the use of numerous worked examples Some readers may have interest only in the application parts of various principles without paying too much attention to the derivation details of equations Other readers may have interest both in derivation details and their applications As a result this book is designed to address both needs and most derivation details are included as example problems Therefore those who are not interested in the details of derivations may skip them without interrupting the effective use of the book It serves as an effective learning source for college students and as a teaching tool for instructors with an included solutions manual as well as for practicing professionals in the areas of fluid mechanics and hydraulics

Fluid Mechanics Through Problems R. J. Garde, 2015

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Fluid Mechanics Joseph H. Spurk, Nuri Aksel, 2019-12-02 This successful textbook emphasizes the unified nature of all the disciplines of Fluid Mechanics as they emerge from the general principles of continuum mechanics The different branches of Fluid Mechanics always originating from simplifying assumptions are developed according to the basic rule from the general to the specific The first part of the book contains a concise but readable introduction into kinematics and the formulation of the laws of mechanics and thermodynamics The second part consists of the methodical application of these principles to technology In addition sections about thin film flow and flow through porous media are included

Engineering Fluid Mechanics Donald F. Elger, Barbara A. LeBret, Clayton T. Crowe, John A. Roberson, 2020-07-08 Engineering Fluid Mechanics guides students from theory to application emphasizing critical thinking problem solving estimation and other vital engineering skills Clear accessible writing puts the focus on essential concepts while abundant illustrations charts diagrams and examples illustrate complex topics and highlight the physical reality of fluid dynamics applications Over 1 000 chapter problems provide the deliberate practice with feedback that leads to material mastery and discussion of real world applications provides a frame of

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Solving Problems in Fluid Mechanics John F. Douglas,R. D. Matthews,1996 Taking a practical approach and assuming only an elementary knowledge of mathematics this book provides answers to a range of common problems in fluid mechanics

Chemical Engineering License Problems and Solutions Dilip K. Das,Rajaram K. Prabhudesai,2003-09-18 This is a review book for people planning to take the PE exam in Chemical Engineering Prepared specifically for the exam used in all 50 states It features 188 new PE problems with detailed step by step solutions The book covers all topics on the exam and includes easy to use tables charts and formulas It is an ideal desk Companion to DAS s Chemical Engineer License Review It includes sixteen chapters and a short PE sample exam as well as complete references and an index Chapters include the following topical areas material and energy balances fluid dynamics heat transfer evaporation distillation absorption leaching liq liq extraction psychrometry and humidification drying filtration thermodynamics chemical kinetics process control mass transfer and plant safety The ideal study guide this book brings all elements of professional problem solving together in one BIG BOOK Ideal desk reference Answers hundreds of the most frequently asked questions The first truly practical no nonsense problems and solution book for the difficult PE exam Full step by step solutions are included

Fundamentals of Fluid Mechanics, Student Study Guide Bruce R. Munson,Donald F. Young,Theodore H. Okiishi,2003-07-03 Accompanying CD ROM contains full text review problems extended laboratory problems links to Fluids Phenomena videos and key words and topics linked directly to where those concepts are explained in the text

Engineering Fluid Mechanics Donald F. Elger,Barbara C. Williams,Clayton T. Crowe,John A. Roberson,2012-08-21 The 10th edition of Crowe s Engineering Fluid Mechanics will build upon the strengths and success of the 9th edition including a focus on pedagogical support and deep integration with WileyPLUS providing deeper support for development of conceptual understanding and problem solving This new edition retains the hallmark features of Crowe s distinguished history clarity of coverage strong examples and practice problems and comprehensiveness of material but expands coverage to Computational Fluid Dynamics a topic missed in earlier editions

Engineering Fluid Mechanics Clayton T. Crowe,Donald F. Elger,John A. Roberson,2000-10-24 This reader friendly book fosters a strong conceptual understanding of fluid flow phenomena through lucid physical descriptions photographs clear illustrations and fully worked example problems More than 1 100 problems including open ended design problems and computer oriented problems provide an opportunity to apply fluid mechanics principles Throughout the authors have meticulously reviewed all

problems solutions and text material to ensure accuracy

Schaum's Outline of Fluid Dynamics William F. Hughes, John A. Brighton, 1999-07-19 Aimed at undergraduates and graduate engineering students this book covers a broad spectrum of fluid mechanics for beginners and more specialized topics like supersonic flow for advanced students

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Applied Fluid Mechanics, Global Edition Robert Mott, Robert L. Mott, Joseph A. Untener, 2024-06-04 For all fluid mechanics hydraulics and related courses in Mechanical Manufacturing Chemical Fluid Power and Civil Engineering Technology and Engineering programs The leading applications oriented approach to engineering fluid mechanics is now in full colour with integrated software new problems and extensive new coverage Applied Fluid Mechanics offers a clear and practical presentation of all basic principles of fluid mechanics both statics and dynamics tying theory directly to real devices and systems used in mechanical chemical civil and environmental engineering The 7th edition offers new real world example problems and integrates the use of world renowned PIPE FLO software for piping system analysis and design It presents new procedures for problem solving and design more realistic and higher quality illustrations and more coverage of many topics including hose plastic pipe tubing pumps viscosity measurement devices and computational fluid mechanics Full colour images and colour highlighting make charts graphs and tables easier to interpret organise narrative material into more manageable chunks and make all of this text's content easier to study

Munson, Young and Okiishi's Fundamentals of Fluid Mechanics, International Adaptation Andrew L. Gerhart, John I. Hochstein, Philip M. Gerhart, 2021-08-03 Munson Young and Okiishi's Fundamentals of Fluid Mechanics is intended for undergraduate engineering students for use in a first course on fluid mechanics Building on the well established principles of fluid mechanics the book offers improved and evolved academic treatment of the subject Each important concept or notion is considered in terms of simple and easy to understand circumstances before more complicated features are introduced The presentation of material allows for the gradual development of student confidence in fluid mechanics problem solving This International Adaptation of the book comes with some new topics and updates on concepts that clarify enhance and expand certain ideas and concepts The new examples and problems build upon the understanding of engineering applications of fluid mechanics and the edition has been completely updated to use SI units

The Science of Fluid Mechanics Frank R. Spellman, 2025-02-18 The Science of Fluid Mechanics Applications in Water and Wastewater Operations examines the intricacies of hydrology and hydraulic systems within the context of water and wastewater management Written in an academic yet easy to understand style the book provides a comprehensive overview of relevant topics of fluid mechanics With a wealth of illustrations and exercises it caters to students operators and plant managers

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The CRC Handbook of Mechanical Engineering, Second Edition, 1998-03-24. During the past 20 years, the field of mechanical engineering has undergone enormous changes. These changes have been driven by many factors, including the development of computer technology, worldwide competition in industry, improvements in the flow of information, satellite communication, real-time monitoring, increased energy efficiency, robotics, automatic control, increased sensitivity to environmental impacts of human activities, advances in design and manufacturing methods. These developments have put more stress on mechanical engineering education, making it increasingly difficult to cover all the topics that a professional engineer will need in his or her career. As a result of these developments, there has been a growing need for a handbook that can serve the professional community by providing relevant background and current information in the field of mechanical engineering. The CRC Handbook of Mechanical Engineering serves the needs of the professional engineer as a resource of information into the next century.

Practice Problems with Solutions Clayton T. Crowe, Donald F. Elger, John A. Roberson, Barbara C. Williams, 2009-01-20. This Practice Problems with Solutions was written to accompany Engineering Fluid Mechanics by Clayton Crowe. It helps to build a stronger foundation for students through practice, since connecting the math and theory of fluid mechanics to practical applications can be a difficult process. Simple and effective examples show how key equations are utilized in practice, and step-by-step descriptions provide details into the processes that engineers follow.

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