

FLUID MECHANICS

- .. the surface tension of water in air is approx. 0.0756 N/m . If the atmospheric pressure is 101 kPa , what is the pressure inside a droplet 0.165 mm in diameter?

For spherical droplet,

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

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

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

$$= 101 \text{ kPa} + \frac{2 (7.56 \times 10^{-5})}{\frac{1}{2} (16.5 \times 10^{-5})}$$

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

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

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:



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

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

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

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

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

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

$$P_4 - P_1 = \Sigma P$$

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

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

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

Sample Problems For Fluid Mechanics

Jack B. Evett, Cheng Liu



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A Brief Introduction to Fluid Mechanics Donald F. Young, Bruce R. Munson, Theodore H. Okiishi, Wade W. Huebsch, 2010-11-23 A Brief Introduction to Fluid Mechanics 5th Edition is designed to cover the standard topics in a basic fluid mechanics course in a streamlined manner that meets the learning needs of today's student better than the dense encyclopedic manner of traditional texts This approach helps students connect the math and theory to the physical world and practical applications and apply these connections to solving problems The text lucidly presents basic analysis techniques and addresses practical concerns and applications such as pipe flow open channel flow flow measurement and drag and lift It offers a strong visual approach with photos illustrations and videos included in the text examples and homework problems to emphasize the practical application of fluid mechanics principles

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 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

A Text Book of Fluid Mechanics and Hydraulic Machines Bansal, 2005-12-30

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Fluid Mechanics Through Problems R. J. Garde, 2006 This Is An Outcome Of Authors Over Thirty Years Of Teaching Fluid Mechanics To Undergraduate And Postgraduate Students The Book Is Written With The Purpose That Through This Book Student Should Appreciate The Strength And Limitations Of The Theory And Also Its Potential For Application In Solving A Variety Of Engineering Problems Of Practical Importance It Makes Available To The Students Appearing For Diploma And Undergraduate Courses In Civil Chemical And Mechanical Engineering A Book Which Briefly Introduces The Necessary Theory Followed By A Set Of Descriptive Objective Questions In Seventeen Chapters The Book Covers The Broad Areas Of Fluid Properties Kinematics Dynamics Dimensional Analysis Laminar Flow Boundary Layer Theory Turbulent Flow Forces On Immersed Bodies Open Channel Flow Compressible And Unsteady Flows And Pumps And Turbines **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 **3000 SOLVED PROBLEMS OF FLUID MECHANICS** Jack B. Evett, 1989-12 *Solved Practical Problems in Fluid Mechanics* Carl J. Schaschke, 2015-08-18 Contains Fluid Flow Topics Relevant to Every Engineer Based on the principle that many students learn more effectively by using solved problems *Solved Practical Problems in Fluid Mechanics* presents a series of worked examples relating fluid flow concepts to a range of engineering applications This text integrates simple mathematical approaches tha **Fluid Dynamics via Examples and Solutions** Sergey Nazarenko, 2014-12-01 *Fluid Dynamics via Examples and Solutions* provides a substantial set of example problems and detailed model solutions covering various phenomena and effects in fluids The book is ideal as a supplement or exam review for undergraduate and graduate courses in fluid dynamics continuum mechanics turbulence ocean and atmospheric sciences and relate **Fluid Mechanics** Joseph H. Spurk, 1997-07-07 This collection of over 200 detailed worked exercises adds to and complements the textbook *Fluid Mechanics* by the same author and at the same time illustrates the teaching material via examples The exercises revolve around applying the fundamental concepts of Fluid Mechanics to obtain solutions to diverse concrete problems and in so doing the students skill in the mathematical modelling of practical problems is developed In addition 30 challenging

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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

1000 Solved Problems in Fluid Mechanics (includes Hydraulic Machines) K. Subramanya, 2005

Engineering fluid mechanics Donald F. Elger, Barbara C.. Williams, Clayton T.. Crowe, 2013-06-27 The Tenth Edition of Crowe's Engineering Fluid Mechanics builds upon the strengths and success of the previous edition including a focus on pedagogical support and deep integration with WileyPLUS providing considering 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 include Computational Fluid Dynamics

Fluid Mechanics for Civil and Environmental Engineers Ahlam I. Shalaby, 2018-02-21 An ideal textbook for civil and environmental mechanical and chemical engineers taking the required Introduction to Fluid Mechanics course Fluid Mechanics for Civil and Environmental Engineers offers clear guidance and builds a firm real world foundation using practical examples and problem sets Each chapter begins with a statement of objectives and includes practical examples to relate the theory to real world engineering design challenges The author places special emphasis on topics that are included in the Fundamentals of Engineering exam and make the book more accessible by highlighting keywords and important concepts including Mathcad algorithms and providing chapter summaries of important concepts and equations

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