

Chapter 14

Fluid Mechanics. Solutions of Selected Problems

14.1 Problem 14.18 (*In the text book*)

Mercury is poured into a U-tube as in Figure (14.18a). The left arm of the tube has cross-sectional area A_1 of 10.0 cm^2 , and the right arm has a cross-sectional area A_2 of 5.00 cm^2 . One hundred grams of water are then poured into the right arm as in Figure Figure (14.18b).

- (a) Determine the length of the water column in the right arm of the U-tube.
- (b) Given that the density of mercury is 13.6 g/cm^3 , what distance h does the mercury rise in the left arm?

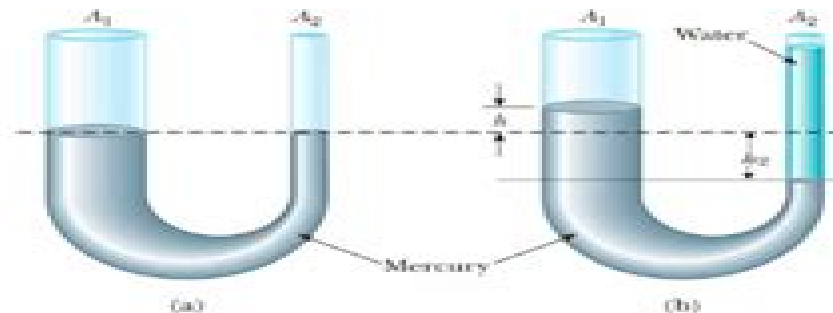


Figure 14.18:

Fluid Mechanics Problems And Solutions

Egon Krause



Fluid Mechanics Problems And Solutions:

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 Fundamentals of Fluid Mechanics Bruce R. Munson, Donald F. Young, Theodore H. Okiishi, 2005-03-11 Master fluid mechanics with the 1 text in the field Effective pedagogy everyday examples an outstanding collection of practical problems these are just a few reasons why Munson Young and Okiishi's Fundamentals of Fluid Mechanics is the best selling fluid mechanics text on the market In each new edition the authors have refined their primary goal of helping you develop the skills and confidence you need to master the art of solving fluid mechanics problems This new Fifth Edition includes many new problems revised and updated examples new Fluids in the News case study examples new introductory material about computational fluid dynamics CFD and the availability of FlowLab for solving simple CFD problems Access special resources online New copies of this text include access to resources on the book's website including 80 short Fluids Mechanics Phenomena videos which illustrate various aspects of real world fluid mechanics Review Problems for additional practice with answers so you can check your work 30 extended laboratory problems that involve actual experimental data for simple experiments The data for these problems is provided in Excel format Computational Fluid Dynamics problems to be solved with FlowLab software Student Solution Manual and Study Guide A Student Solution Manual and Study Guide is available for purchase including essential points of the text Cautions to alert you to common mistakes 109 additional example problems with solutions and complete solutions for the Review Problems **Fluid Mechanics** Joseph H. Spurk, 2012-04-07 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 questions WITHOUT detailed solutions have been included While lecturers will find these questions suitable for examinations and tests students themselves can use them to check their understanding of the subject *Fluid Mechanics for Engineers* Meinhard T. Schobeiri, 2010-03-27 The contents of this book covers the material required in the Fluid Mechanics Graduate Core Course MEEN 621 and in Advanced Fluid Mechanics a Ph D level elective course MEEN 622 both of which I have been teaching at Texas A M University for the past two decades While there are numerous undergraduate fluid mechanics texts on the market for engineering students and instructors to choose from

there are only limited texts that comprehensively address the particular needs of graduate engineering fluid mechanics courses To complement the lecture materials the instructors more often recommend several texts each of which treats special topics of fluid mechanics This circumstance and the need to have a textbook that covers the materials needed in the above courses gave the impetus to provide the graduate engineering community with a coherent textbook that comprehensively addresses their needs for an advanced fluid mechanics text Although this text book is primarily aimed at mechanical engineering students it is equally suitable for aerospace engineering civil engineering other engineering disciplines and especially those practicing professionals who perform CFD simulation on a routine basis and would like to know more about the underlying physics of the commercial codes they use Furthermore it is suitable for self study provided that the reader has a sufficient knowledge of calculus and differential equations In the past because of the lack of advanced computational capability the subject of fluid mechanics was artificially subdivided into inviscid viscous laminar turbulent incompressible compressible subsonic supersonic and hypersonic flows

[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

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 related

Fluid Mechanics: Problems And Solutions Spurk, 2005-01-01 **Fluid Mechanics** Egon Krause, 2005-12-08 Despite dramatic advances in numerical and experimental methods of fluid mechanics the fundamentals are still the starting point for solving flow problems This textbook introduces the major branches of fluid mechanics of incompressible and compressible media the basic laws governing their flow and gas dynamics Fluid Mechanics demonstrates how flows can be classified and how specific engineering problems can be identified formulated and solved using the methods of applied mathematics The material is elaborated in special applications sections by more than 200 exercises and separately listed solutions The final section comprises the Aerodynamics Laboratory an introduction to experimental methods treating eleven flow experiments This class tested textbook offers a unique combination of introduction to the major fundamentals many exercises and a detailed description of

experiments **Fluid Mechanics** Egon Krause, 2005 **Engineering Fluid Mechanics** Clayton T. Crowe, Donald F. Elger, John A. Roberson, 2005-11-18 Error free The authors have taken great pains to check the accuracy of all calculations throughout the text Readability This text has established a reputation for clarity and the ease with which students can grasp the material with minimal input from the instructor Supporting Illustrations further support and facilitate student comprehension Basic concepts are explained with physical arguments A physical visual approach aids the student in gaining an intuitive understanding of the principles of fluid dynamics Numerous worked out examples in the text Students can use the examples as a basis for solving problems Design problems Applying theoretical principles in practical designs helps develop the student's engineering creativity Appropriate coverage of mathematics The text's treatment of mathematics is consistent with the capability of the typical undergraduate student For example the concept of irrotationality and the Bernoulli equation in irrotational flow is presented with a minimum use of partial differential equations This concept is made more visual and comprehensible to the student More advanced mathematical formulations are available in the text for use at the instructor's discretion **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 that *Solutions to Problems in Fluid Mechanics* Victor Lyle Streeter, E. Benjamin Wylie, 1979 **Solutions to Problems in Fluid Mechanics** Victor Lyle Streeter, E. Benjamin Wylie, Constantine Papadakis, 1975 *Fluid Mechanics* Franz Durst, 2022-07-15 This book begins with an introductory chapter summarizing the history of fluid mechanics It then moves on to the essential mathematics and physics needed to understand and work in fluid mechanics Analytical treatments are based on the Navier Stokes equations **Solution of Superlarge Problems in Computational Mechanics** James H. Kane, 2012-12-06 There is a need to solve problems in solid and fluid mechanics that currently exceed the resources of current and foreseeable supercomputers The issue revolves around the number of degrees of freedom of simultaneous equations that one needs to accurately describe the problem and the computer storage and speed limitations which prohibit such solutions The goals of this symposium were to explore some of the latest work being done in both industry and academia to solve such extremely large problems and to provide a forum for the discussion and prognostication of necessary future directions of both man and machine As evidenced in this proceedings we believe these goals were met Contained in this volume are discussions of iterative solvers and their application to a variety of problems e.g. structures fluid dynamics and structural acoustics iterative dynamic substructuring and its use in structural acoustics the use of the boundary element method both alone and in conjunction with the finite element method the application of finite difference methods to problems of incompressible turbulent flow and algorithms amenable to concurrent computations and their applications Furthermore discussions of

existing computational shortcomings from the big picture point of view are presented that include recommendations for future work

Solution of Problems in Fluid Mechanics John F. Douglas, *Biofluid Mechanics* David Rubenstein, Wei Yin, Mary D. Frame, 2015-07-28 *Biofluid Mechanics* An Introduction to Fluid Mechanics Macrocirculation and Microcirculation shows how fluid mechanics principles can be applied not only to blood circulation but also to air flow through the lungs joint lubrication intraocular fluid movement renal transport among other specialty circulations This new second edition increases the breadth and depth of the original by expanding chapters to cover additional biofluid mechanics principles disease criteria and medical management of disease with supporting discussions of the relevance and importance of current research Calculations related both to the disease and the material covered in the chapter are also now provided Uses language and math that is appropriate and conducive for undergraduate learning containing many worked examples and end of chapter problems Develops all engineering concepts and equations within a biological context Covers topics in the traditional biofluids curriculum and addresses other systems in the body that can be described by biofluid mechanics principles Discusses clinical applications throughout the book providing practical applications for the concepts discussed NEW Additional worked examples with a stronger connection to relevant disease conditions and experimental techniques NEW Improved pedagogy with more end of chapter problems images tables and headings to better facilitate learning and comprehension of the material

Engineering Fluid Dynamics C. Kleinstreuer, 1997-02-28 A practical approach to the study of fluid mechanics at the graduate level

Engineering Fluid Mechanics William Graebel, 2001-01-19 Fluid mechanics is a core component of many undergraduate engineering courses It is essential for both students and lecturers to have a comprehensive highly illustrated textbook full of exercises problems and practical applications to guide them through their study and teaching *Engineering Fluid Mechanics* By William P Grabel is that book The ISE version of this comprehensive text is especially priced for the student market and is an essential textbook for undergraduates particularly those on mechanical and civil engineering courses designed to emphasis the physical aspects of fluid mechanics and to develop the analytical skills and attitudes of the engineering student Example problems follow most of the theory to ensure that students easily grasp the calculations step by step processes outline the procedure used so as to improve the students problem solving skills An Appendix is included to present some of the more general considerations involved in the design process The author also links fluid mechanics to other core engineering courses an undergraduate must take heat transfer thermodynamics mechanics of materials statistics and dynamics wherever possible to build on previously learned knowledge

Solution of Problems in Fluid Mechanics John Francis Douglas, 1971-01-01

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