

Chapter 13 Fluid Mechanics Solved Examples

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Dynamics of Very High
Dimensional Systems
MECHANICAL SCIENCES
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Parallel Processing for
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Mechanics Concepts Of Physics Modeling with
Differential Equations in Chemical Engineering

Basic Fluid Mechanics

'Modelling with Differential Equations in Chemical Engineering' covers the modelling of rate processes of engineering in terms of differential equations. While it includes the purely mathematical aspects of the solution of differential equations, the main emphasis is on the derivation and solution of major equations of engineering and applied science. Methods of solving differential equations by analytical and numerical means are presented in detail with many solved examples, and problems for solution by the reader. Emphasis is placed on numerical and computer methods of solution. A key chapter in the book is devoted to the principles of mathematical modelling. These principles are applied to the equations in important engineering areas. The major disciplines covered are thermodynamics, diffusion and mass transfer, heat transfer, fluid dynamics, chemical reactions, and automatic control. These topics are of particular value to chemical engineers, but also are of interest to mechanical, civil, and environmental engineers, as well as applied scientists. The material is also suitable for undergraduate and beginning graduate students, as well as for review by practising engineers.

Dynamics of Very High Dimensional Systems

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Primarily intended for the first-year undergraduate students of various engineering disciplines, this comprehensive and up-to-date text also serves the needs of second-year undergraduate students (Mechanical, Civil, Aeronautical, Chemical, Production and Marine Engineering) studying Engineering Thermodynamics and Fluid Mechanics. The whole text is divided into two parts and gives a detailed description of the theory along with the systematic applications of laws of Thermodynamics and Fluid Mechanics to engineering problems. Part I (Chapters 1-6) deals with the energy interaction between system and surroundings, while Part II (Chapters 7-15) covers the fluid flow phenomena. This accessible and comprehensive text is designed to take the student from an elementary level to a level of sophistication required for the analysis of practical problems.

MECHANICAL SCIENCES

This is the most comprehensive introductory graduate or advanced undergraduate text in fluid mechanics available. It builds from the fundamentals, often in a very general way, to widespread applications to technology and geophysics. In most areas, an understanding of this book can be followed up by specialized monographs and the research literature. The material added to this new edition will provide insights gathered over 45 years of studying fluid mechanics. Many of these insights, such as universal dimensionless similarity scaling for the laminar boundary layer equations, are available nowhere else. Likewise for the generalized vector field derivatives.

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Other material, such as the generalized stream function treatment, shows how stream functions may be used in three-dimensional flows. The CFD chapter enables computations of some simple flows and provides entrée to more advanced literature. *New and generalized treatment of similar laminar boundary layers. *Generalized treatment of streamfunctions for three-dimensional flow . *Generalized treatment of vector field derivatives. *Expanded coverage of gas dynamics. *New introduction to computational fluid dynamics. *New generalized treatment of boundary conditions in fluid mechanics. *Expanded treatment of viscous flow with more examples.

Solving Problems in Fluid Mechanics

Parallel Processing for Scientific Computing

As in previous editions, this ninth edition of Massey's *Mechanics of Fluids* introduces the basic principles of fluid mechanics in a detailed and clear manner. This bestselling textbook provides the sound physical understanding of fluid flow that is essential for an honours degree course in civil or mechanical engineering as well as courses in aeronautical and chemical engineering. Focusing on the engineering applications of fluid flow, rather than mathematical techniques, students are gradually introduced to the subject, with the text moving from the simple to the complex, and from the familiar to the unfamiliar. In an

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all-new chapter, the ninth edition closely examines the modern context of fluid mechanics, where climate change, new forms of energy generation, and fresh water conservation are pressing issues. SI units are used throughout and there are many worked examples. Though the book is essentially self-contained, where appropriate, references are given to more detailed or advanced accounts of particular topics providing a strong basis for further study. For lecturers, an accompanying solutions manual is available.

2,500 Solved Problems In Fluid Mechanics and Hydraulics

Fluid Mechanics Fundamentals and Applications

Encyclopedia of Fluid Mechanics: Supplement 1

Discretization of the domain. Interpolation models. Higher order and isoparametric elements. Derivation of element matrices and vectors. Number solution of finite element equations.

Modern Computational Methods

Many books on dynamics start with a discussion of systems with one or two degrees of freedom and then

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turn to the generalization to the case of many degrees of freedom. For linear systems, the concept of eigenfunctions provides a compact and elegant method for decomposing the dynamics of a high dimensional system into a series of independent single-degree-of-freedom dynamical systems. Yet, when the system has a very high dimension, the determination of the eigenfunctions may be a distinct challenge, and when the dynamical system is nonconservative and/or nonlinear, the whole notion of uncoupled eigenmodes requires nontrivial extensions of classical methods. These issues constitute the subject of this book.

Physics of Continuous Matter

""Presents methods necessary for high accuracy computing of fluid flow and wave phenomena in single source format using unified spectral theory of computing"--Provided by publisher"--

Fluid Mechanics

Turbulent Jets

This is an extensively revised edition of Paul Tipler's standard text for calculus-based introductory physics courses. It includes entirely new artwork, updated examples and new pedagogical features.

Finite Element Multidisciplinary Analysis

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This book is an introduction to computational mechanics, proceeding from basic computational tools to advanced computational procedures and applications. Emphasis is placed on the numerical techniques and how they form the bases for algorithms. Numerous worked examples in structural mechanics, heat transfer, fluid flow, and biomechanics are given with the numerical codes to illustrate how the methods are applied. A concluding section addresses advanced applications in such areas as finite volume methods and biomechanics.

Mechanics of Fluids

Fluid mechanics is often seen as the most difficult core subject encountered by engineering students. The problem stems from the necessity to visualise complex flow patterns and fluid behaviour modelled by high level mathematics. This text overcomes this difficulty by introducing the concepts through everyday examples, before moving on to the more involved mathematics. The various theories of flow have been correlated with real phenomena and, combined with numerous figures and photographs, help the reader place the subject in context. Examples from a broad range of engineering disciplines are included making this textbook suitable for all engineers studying fluid systems as part of their degree. Introduction to Fluid Mechanics is translated from the best-selling Japanese book by Professor Yasuki Nakayama, and adapted for the international market by Professor Robert Boucher. Introduces the concepts through everyday examples

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before moving on to the more involved mathematics. Various theories of flow are applied to real phenomena and illustrated with numerous figures and photographs. Includes examples from a broad range of engineering disciplines.

101 Solved Civil Engineering Problems

This is a revised introduction to the physical concepts and mathematics of fluid mechanics. It reinforces concepts with equations and solutions for relatively simple geometrics, through examples, worked problems and derivations, demonstrated in easy stages. Although the book emphasizes SI units, approximately one quarter of the worked examples and problems are duplicated with English units, and all properties and dimensional constants are provided in both SI and English units. It also includes computer-based Basic and spread sheet solutions in the sections on open channel and pipe network flows.

Mechanics of Fluids

Scientific computing has often been called the third approach to scientific discovery, emerging as a peer to experimentation and theory. Historically, the synergy between experimentation and theory has been well understood: experiments give insight into possible theories, theories inspire experiments, experiments reinforce or invalidate theories, and so on. As scientific computing has evolved to produce results that meet or exceed the quality of experimental and theoretical results, it has become

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indispensable. Parallel processing has been an enabling technology in scientific computing for more than 20 years. This book is the first in-depth discussion of parallel computing in 10 years; it reflects the mix of topics that mathematicians, computer scientists, and computational scientists focus on to make parallel processing effective for scientific problems. Presently, the impact of parallel processing on scientific computing varies greatly across disciplines, but it plays a vital role in most problem domains and is absolutely essential in many of them. Parallel Processing for Scientific Computing is divided into four parts: The first concerns performance modeling, analysis, and optimization; the second focuses on parallel algorithms and software for an array of problems common to many modeling and simulation applications; the third emphasizes tools and environments that can ease and enhance the process of application development; and the fourth provides a sampling of applications that require parallel computing for scaling to solve larger and realistic models that can advance science and engineering. This edited volume serves as an up-to-date reference for researchers and application developers on the state of the art in scientific computing. It also serves as an excellent overview and introduction, especially for graduate and senior-level undergraduate students interested in computational modeling and simulation and related computer science and applied mathematics aspects. Contents List of Figures; List of Tables; Preface; Chapter 1: Frontiers of Scientific Computing: An Overview; Part I: Performance Modeling, Analysis and Optimization. Chapter 2: Performance Analysis:

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From Art to Science; Chapter 3: Approaches to Architecture-Aware Parallel Scientific Computation; Chapter 4: Achieving High Performance on the BlueGene/L Supercomputer; Chapter 5: Performance Evaluation and Modeling of Ultra-Scale Systems; Part II: Parallel Algorithms and Enabling Technologies. Chapter 6: Partitioning and Load Balancing; Chapter 7: Combinatorial Parallel and Scientific Computing; Chapter 8: Parallel Adaptive Mesh Refinement; Chapter 9: Parallel Sparse Solvers, Preconditioners, and Their Applications; Chapter 10: A Survey of Parallelization Techniques for Multigrid Solvers; Chapter 11: Fault Tolerance in Large-Scale Scientific Computing; Part III: Tools and Frameworks for Parallel Applications. Chapter 12: Parallel Tools and Environments: A Survey; Chapter 13: Parallel Linear Algebra Software; Chapter 14: High-Performance Component Software Systems; Chapter 15: Integrating Component-Based Scientific Computing Software; Part IV: Applications of Parallel Computing. Chapter 16: Parallel Algorithms for PDE-Constrained Optimization; Chapter 17: Massively Parallel Mixed-Integer Programming; Chapter 18: Parallel Methods and Software for Multicomponent Simulations; Chapter 19: Parallel Computational Biology; Chapter 20: Opportunities and Challenges for Parallel Computing in Science and Engineering; Index.

1000 Solved Problems in Fluid Mechanics (includes Hydraulic Machines)

Turbulent Jets

Fluid Mechanics

This text is intended for one-year introductory courses requiring algebra and some trigonometry, but no calculus. College Physics is organized such that topics are introduced conceptually with a steady progression to precise definitions and analytical applications. The analytical aspect (problem solving) is tied back to the conceptual before moving on to another topic. Each introductory chapter, for example, opens with an engaging photograph relevant to the subject of the chapter and interesting applications that are easy for most students to visualize. For manageability the original text is available in three volumes . Original text published by Openstax College (Rice University) www.textbookequity.org

Schaum's Outline of Fluid Mechanics and Hydraulics, 3ed

Schaum's Outlines present all the essential course information in an easy-to-follow, topic-by-topic format. You also get hundreds of examples, solved problems, and practice exercises to test your skills.

Fluid Dynamics via Examples and Solutions

Annotation This book fills a gap within the finite element literature by addressing the challenges and developments in multidisciplinary analysis. Current developments include disciplines of structural mechanics, heat transfer, fluid mechanics, controls

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engineering and propulsion technology, and their interaction as encountered in many practical problems in aeronautical, aerospace, and mechanical engineering, among others. These topics are reflected in the 15 chapter titles of the book. Numerical problems are provided to illustrate the applicability of the techniques. Exercises may be solved either manually or by using suitable computer software. A version of the multidisciplinary analysis program STARS is available from the author. As a textbook, the book is useful at the senior undergraduate or graduate level. The practicing engineer will find it invaluable for solving full-scale practical problems.

Biofluid Mechanics

This book deals with explosive instabilities in mechanics, deriving a solution to a system of PDEs that arise in practical situations. It begins with a relatively simple account of blow-up in systems of interaction-diffusion equations. Among the topics presented are: classical fluid equations, catastrophic behavior in nonlinear fluid theories, blow-up in Volterra equations, and rapid energy growth in parallel flows.

Explosive Instabilities in Mechanics

This second volume of two aims to help prepare students of fluid mechanics for their examinations by presenting a clear explanation of theory and application in the form of solutions to typical examination and assignment type questions. Each

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chapter comprises start-of-chapter learning objectives, a summary of basic theory, end-of-chapter summaries, a range of worked examples, a selection of problems with answers, and assignments to encourage further practice and consolidate understanding.

Introduction to Fluid Mechanics

Working typical civil PE exam problems is good practice for the actual test. Every exam subject is represented in this collection of problems, which are written in the same format and with the same level of difficulty as the real exam. Solutions are included. This edition references all the current codes tested on the exam.

Fluid Mechanics

Offering a modern approach to this most classical of subjects, *Physics of Continuous Matter* is first and foremost an introduction to the basic concepts and phenomenology of continuous systems, and the derivations of the equations of continuum mechanics from Newtonian mechanics. Although many examples, particularly in the earlier chapters, are taken from geophysics and astrophysics, the author places the emphasis firmly on generic methods and applications. Each chapter begins with a 'soft' introduction, placing the discussion within an everyday context, and the level of difficulty then rises steadily, a pattern which is reflected throughout the text as a whole. The necessary mathematical tools

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are developed in parallel with the physics on a 'need-to-know' basis, an approach that avoids lengthy mathematical preliminaries.

Applied Fluid Dynamics Handbook

Fluid mechanics, the study of how fluids behave and interact under various forces and in various applied situations-whether in the liquid or gaseous state or both-is introduced and comprehensively covered in this widely adopted text. Revised and updated by Dr. David Dowling, Fluid Mechanics, Fifth Edition is suitable for both a first or second course in fluid mechanics at the graduate or advanced undergraduate level. The leading advanced general text on fluid mechanics, Fluid Mechanics, 5e includes a free copy of the DVD "Multimedia Fluid Mechanics," second edition. With the inclusion of the DVD, students can gain additional insight about fluid flows through nearly 1,000 fluids video clips, can conduct flow simulations in any of more than 20 virtual labs and simulations, and can view dozens of other new interactive demonstrations and animations, thereby enhancing their fluid mechanics learning experience. Text has been reorganized to provide a better flow from topic to topic and to consolidate portions that belong together. Changes made to the book's pedagogy accommodate the needs of students who have completed minimal prior study of fluid mechanics. More than 200 new or revised end-of-chapter problems illustrate fluid mechanical principles and draw on phenomena that can be observed in everyday life. Includes free Multimedia Fluid

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Mechanics 2e DVD

Mechanics of Fluids

Fluid Physics in Geology is aimed at geology students who are interested in understanding fluid behavior and motion in the context of a wide variety of geological problems, and who wish to pursue related work in fluid physics. The book provides an introductory treatment of the physical and dynamical behaviors of fluids by focusing first on how fluids behave in a general way, then looking more specifically at how they are involved in certain geological processes. The text is written so students may concentrate on the sections that are most relevant to their own needs. Helpful problems following each chapter illustrate applications of the material to realistic problems involving groundwater flows, magma dynamics, open-channel flows, and thermal convection. Fluid Physics in Geology is ideal for graduate courses in all areas of geology, including hydrology, geomorphology, sedimentology, and petrology.

Tissue Mechanics

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 areas. It

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is also suitable as a main text for fluid dynamics courses with an emphasis on learning by example and as a self-study resource for practicing scientists who need to learn the basics of fluid dynamics. The author covers several sub-areas of fluid dynamics, types of flows, and applications. He also includes supplementary theoretical material when necessary. Each chapter presents the background, an extended list of references for further reading, numerous problems, and a complete set of model solutions.

Fluid Mechanics for Chemical Engineers

Cengel and Cimbala's Fluid Mechanics Fundamentals and Applications, communicates directly with tomorrow's engineers in a simple yet precise manner. The text covers the basic principles and equations of fluid mechanics in the context of numerous and diverse real-world engineering examples. The text helps students develop an intuitive understanding of fluid mechanics by emphasizing the physics, using figures, numerous photographs and visual aids to reinforce the physics. The highly visual approach enhances the learning of Fluid mechanics by students. This text distinguishes itself from others by the way the material is presented - in a progressive order from simple to more difficult, building each chapter upon foundations laid down in previous chapters. In this way, even the traditionally challenging aspects of fluid mechanics can be learned effectively. McGraw-Hill is also proud to offer ConnectPlus powered by Maple with the third edition of Cengel/Cimbabla, Fluid Mechanics. This innovative

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and powerful new system that helps your students learn more easily and gives you the ability to customize your homework problems and assign them simply and easily to your students. Problems are graded automatically, and the results are recorded immediately. Natural Math Notation allows for answer entry in many different forms, and the system allows for easy customization and authoring of exercises by the instructor.

Physics for Scientists and Engineers

College Physics Textbook Equity Edition Volume 2 of 3: Chapters 13 - 24

Fluid Mechanics for Chemical Engineers, third edition retains the characteristics that made this introductory text a success in prior editions. It is still a book that emphasizes material and energy balances and maintains a practical orientation throughout. No more math is included than is required to understand the concepts presented. To meet the demands of today's market, the author has included many problems suitable for solution by computer. Two brand new chapters are included. The first, on mixing, augments the book's coverage of practical issues encountered in this field. The second, on computational fluid dynamics (CFD), shows students the connection between hand and computational fluid dynamics.

Schaum's Outline of Fluid Mechanics and Hydraulics, 4th Edition

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This supplement to the comprehensive series "Encyclopedia of Fluid Mechanics" steps back from the topical approach to fluid mechanics, and embraces the overall subject from an entirely mathematical viewpoint. Within the pure science of mathematics, the motion of particles and fluids is described and studied without the uncertainty that can accompany experimental investigations. This volume addresses the mathematical details of model formation and development, which constitutes the basis for numerical experimentation. It is intended to stimulate and report current and emerging concepts in pure research on flow dynamics.

JEE Main 2020 Chapter Wise Numerical Response Questions with Solution for Physics By Career Point Kota

The Finite Element Method in Engineering

Master fluid mechanics and hydraulics with Schaum's high-performance guide that helps you cut study time, hone problem-solving skills, and achieve your personal best on exams. Compatible with any classroom text, Schaum's guides are complete enough for graduate or professional exam review and allows you to progress at your own pace but find the answers you need fast. Copyright © Libri GmbH. All rights reserved.

High Accuracy Computing Methods

Fluid Physics in Geology

The ability to understand the area of fluid mechanics is enhanced by using equations to mathematically model those phenomena encountered in everyday life. Helping those new to fluid mechanics make sense of its concepts and calculations, Introduction to Fluid Mechanics, Fourth Edition makes learning a visual experience by introducing the types of pr

Introduction to the Mechanics of Viscous Fluids

Both broad and deep in coverage, Rubenstein shows that fluid mechanics principles can be applied not only to blood circulation, but also to air flow through the lungs, joint lubrication, intraocular fluid movement and renal transport. Each section initiates discussion with governing equations, derives the state equations and then shows examples of their usage. Clinical applications, extensive worked examples, and numerous end of chapter problems clearly show the applications of fluid mechanics to biomedical engineering situations. A section on experimental techniques provides a springboard for future research efforts in the subject area. Uses language and math that is appropriate and conducive for undergraduate learning, containing many worked examples and end of chapter problems All engineering concepts and equations are developed within a biological context

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Covers topics in the traditional biofluids curriculum, as well as addressing other systems in the body that can be described by biofluid mechanics principles, such as air flow through the lungs, joint lubrication, intraocular fluid movement, and renal transport. Clinical applications are discussed throughout the book, providing practical applications for the concepts discussed.

Engineering Fluid Mechanics Solution Manual

The structures of living tissues are continually changing due to growth and response to the tissue environment, including the mechanical environment. Tissue Mechanics is an in-depth look at the mechanics of tissues. Tissue Mechanics describes the nature of the composite components of a tissue, the cellular processes that produce these constituents, the assembly of the constituents into a hierarchical structure, and the behavior of the tissue's composite structure in the adaptation to its mechanical environment. Organized as a textbook for the student needing to acquire the core competencies, Tissue Mechanics will meet the demands of advanced undergraduate or graduate coursework in Biomedical Engineering, as well as, Chemical, Civil, and Mechanical Engineering. Key features: Detailed Illustrations Example problems, including problems at the end of sections A separate solutions manual available for course instructors A website (<http://tissue-mechanics.com/>) that has been established to provide supplemental material for the

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book, including downloadable additional chapters on specific tissues, downloadable PowerPoint presentations of all the book's chapters, and additional exercises and examples for the existing chapters. About the Authors: Stephen C. Cowin is a City University of New York Distinguished Professor, Departments of Biomedical and Mechanical Engineering, City College of the City University of New York and also an Adjunct Professor of Orthopaedics, at the Mt. Sinai School of Medicine in New York, New York. In 1985 he received the Society of Tulane Engineers and Lee H. Johnson Award for Teaching Excellence and a recipient of the European Society of Biomechanics Research Award in 1994. In 1999 he received the H. R. Lissner medal of the ASME for contributions to biomedical engineering. In 2004 he was elected to the National Academy of Engineering (NAE) and he also received the Maurice A. Biot medal of the American Society of Civil Engineers (ASCE). Stephen B. Doty is a Senior Scientist at Hospital for Special Surgery, New York, New York and Adjunct Professor, School of Dental and Oral Surgery, Columbia University, New York, NY. He has over 100 publications in the field of anatomy, developmental biology, and the physiology of skeletal and connective tissues. His honors include several commendations for participation in the Russian/NASA spaceflights, the Spacelab Life Science NASA spaceflights, and numerous Shuttle missions that studied the influence of spaceflight on skeletal physiology. He presently is on the scientific advisory board of the National Space Biomedical Research Institute, Houston, Texas.

Introduction to Fluid Mechanics

Fluid mechanics embraces engineering, science, and medicine. This book's logical organization begins with an introductory chapter summarizing the history of fluid mechanics and 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. The book also fully addresses the numerical and experimental methods applied to flows. This text is specifically written to meet the needs of students in engineering and science. Overall, readers get a sound introduction to fluid mechanics.

Concepts Of Physics

Whenever a student decides to prepare for any examination, her/his first and foremost curiosity is about the type of questions that he/she has to face. We feel great pleasure to present this book before you. We have made an attempt to provide Chapter wise Numerical Response Questions for JEE Main as per NTA latest pattern with answer and solutions to majority of questions. Solutions to the questions are not just sketch rather have been written in such a manner that the students will be able to understand the application of concept and can answer some other related questions too. We firmly believe that the book in this form will definitely help a genuine, hardworking student. We have tried our best to keep errors out of this book. Comment and criticism from readers will be highly appreciated and incorporated in the

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subsequent edition. We wish to utilize the opportunity to place on record our special thanks to all team members of Content Development for their efforts to make this wonderful book. Best Wishes Career Point

Modeling with Differential Equations in Chemical Engineering

Tough Test Questions? Missed Lectures? Not Enough Time? Fortunately, there's Schaum's. This all-in-one-package includes more than 600 fully solved problems, examples, and practice exercises to sharpen your problem-solving skills. Plus, you will have access to 20 detailed videos featuring instructors who explain the most commonly tested problems--it's just like having your own virtual tutor! You'll find everything you need to build confidence, skills, and knowledge for the highest score possible. More than 40 million students have trusted Schaum's to help them succeed in the classroom and on exams. Schaum's is the key to faster learning and higher grades in every subject. Each Outline presents all the essential course information in an easy-to-follow, topic-by-topic format. You also get hundreds of examples, solved problems, and practice exercises to test your skills. This Schaum's Outline gives you 622 fully solved problems Extra practice on topics such as buoyancy and flotation, complex pipeline systems, fluid machinery, flow in open channels, and more Support for all the major textbooks for fluid mechanics and hydraulics courses Fully compatible with your classroom text, Schaum's highlights all the important facts you need to know. Use Schaum's to

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shorten your study time--and get your best test scores! Schaum's Outlines--Problem Solved.

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