

Fluid Mechanics Worked Examples For Engineers

A Textbook of Fluid Mechanics Fox and McDonald's Introduction to Fluid Mechanics Worked Examples in Turbomachinery (fluid Mechanics and Thermodynamics) Computational Fluid Dynamics 2,500 Solved Problems In Fluid Mechanics and Hydraulics Fluid Mechanics & Machinery Worked Examples in Turbomachinery Fluid Mechanics DeMYSTiFied Fluid Mechanics/Dynamics Problem Solver A Physical Introduction to Fluid Mechanics Fluid Mechanics and Machinery Fundamentals of Fluid Mechanics Fluid Mechanics Fluid Mechanics Through Problems Fluid Mechanics Fluid Mechanics Fluid Mechanics Problems in Hydraulics and Fluid Mechanics 1000 Solved Problems in Fluid Mechanics (includes Hydraulic Machines) Fluid Dynamics via Examples and Solutions A First Course in Fluid Mechanics for Civil Engineers Fluid Mechanics and the Theory of Flight Fluid Mechanics and Hydraulic Machines An Introduction to Computational Fluid Mechanics by Example Basics of Fluid Mechanics Fluid Mechanics Fluid Mechanics Advanced Fluid Mechanics Computational Fluid Mechanics and Heat Transfer, Second Edition Fluid Mechanics Through Worked Examples Fluid Mechanics Fluid Mechanics Solved Practical Problems in Fluid Mechanics Fluid Mechanics and Thermodynamics of Turbomachinery Basic Fluid Mechanics Basic Fluid Mechanics An Introduction to Computational Fluid Mechanics by Example Fluid Mechanics Worked Examples in Turbomachinery (Fluid Mechanics and Thermodynamics). Introduction to Fluid Mechanics

A Textbook of Fluid 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 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.

Fox and McDonald's Introduction to Fluid Mechanics

Worked Examples in Turbomachinery (fluid Mechanics and Thermodynamics)

Read Book Fluid Mechanics Worked Examples For Engineers

Fluid Mechanics: An Intermediate Approach addresses the problems facing engineers today by taking on practical, rather than theoretical problems. Instead of following an approach that focuses on mathematics first, this book allows you to develop an intuitive physical understanding of various fluid flows, including internal compressible flows with simultaneous area change, friction, heat transfer, and rotation. Drawing on over 40 years of industry and teaching experience, the author emphasizes physics-based analyses and quantitative predictions needed in the state-of-the-art thermofluids research and industrial design applications. Numerous worked-out examples and illustrations are used in the book to demonstrate various problem-solving techniques. The book covers compressible flow with rotation, Fanno flows, Rayleigh flows, isothermal flows, normal shocks, and oblique shocks; Bernoulli, Euler, and Navier-Stokes equations; boundary layers; and flow separation. Includes two value-added chapters on special topics that reflect the state of the art in design applications of fluid mechanics Contains a value-added chapter on incompressible and compressible flow network modeling and robust solution methods not found in any leading book in fluid mechanics Gives an overview of CFD technology and turbulence modeling without its comprehensive mathematical details Provides an exceptional review and reinforcement of the physics-based understanding of incompressible and compressible flows with many worked-out examples and problems from real-world fluids engineering applications Fluid Mechanics: An Intermediate Approach uniquely aids in the intuitive understanding of various fluid flows for their physics-based analyses and

quantitative predictions needed in the state-of-the-art thermofluids research and industrial design applications.

Computational Fluid Dynamics

Fluid Mechanics, Second Edition deals with fluid mechanics, that is, the theory of the motion of liquids and gases. Topics covered range from ideal fluids and viscous fluids to turbulence, boundary layers, thermal conduction, and diffusion. Surface phenomena, sound, and shock waves are also discussed, along with gas flow, combustion, superfluids, and relativistic fluid dynamics. This book is comprised of 16 chapters and begins with an overview of the fundamental equations of fluid dynamics, including Euler's equation and Bernoulli's equation. The reader is then introduced to the equations of motion of a viscous fluid; energy dissipation in an incompressible fluid; damping of gravity waves; and the mechanism whereby turbulence occurs. The following chapters explore the laminar boundary layer; thermal conduction in fluids; dynamics of diffusion of a mixture of fluids; and the phenomena that occur near the surface separating two continuous media. The energy and momentum of sound waves; the direction of variation of quantities in a shock wave; one- and two-dimensional gas flow; and the intersection of surfaces of discontinuity are also also considered. This monograph will be of interest to theoretical physicists.

2,500 Solved Problems In Fluid Mechanics and Hydraulics

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. 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.

Fluid Mechanics & Machinery

Read Book Fluid Mechanics Worked Examples For Engineers

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 gasdynamics. "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.

Worked Examples in Turbomachinery

Fluid Mechanics DeMYSTiFied

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/Dynamics Problem Solver

This new book builds on the original classic textbook entitled: An Introduction to Computational Fluid Mechanics by C. Y. Chow which was originally published in 1979. In the decades that have passed since this book was published the field of computational fluid dynamics has seen a number of changes in both the sophistication of the algorithms used but also advances in the computer hardware and software available. This new book incorporates the latest algorithms in the solution techniques and supports this by using numerous examples of applications to a broad range of industries from mechanical and aerospace disciplines to civil and the biosciences. The computer programs are developed and available in MATLAB. In addition the core text provides up-to-date solution methods for the Navier-Stokes equations, including fractional step time-advancement, and pseudo-spectral methods. The computer codes at the following website:
www.wiley.com/go/biringen

A Physical Introduction to Fluid Mechanics

Fluid Mechanics and Machinery

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Uncover Effective Engineering Solutions to Practical Problems With its clear explanation of fundamental principles and emphasis on real world applications, this practical text will motivate readers to learn. The author connects theory and analysis to practical examples drawn from engineering practice. Readers get a better understanding of how they can apply these concepts to develop engineering answers to various problems. By using simple examples that illustrate basic principles and more complex examples representative of engineering applications throughout the text, the author also shows readers how fluid mechanics is relevant to the engineering field. These examples will help them develop problem-solving skills, gain physical insight into the material, learn how and when to use approximations and make assumptions, and understand when these approximations might break down. Key Features of the Text * The underlying physical concepts are highlighted rather than focusing on the mathematical equations. * Dimensional reasoning is emphasized as well as the interpretation of the results. * An introduction to engineering in the environment is included to spark reader interest. * Historical references throughout the chapters provide readers with the rich history of fluid mechanics.

Fundamentals of Fluid Mechanics

Fluid Mechanics

The new edition will continue to be of use to engineers in industry and technological establishments, especially as brief reviews are included on many important aspects of Turbomachinery, giving pointers towards more advanced sources of information. For readers looking towards the wider reaches of the subject area, very useful additional reading is referenced in the bibliography. The subject of Turbomachinery is in continual review, and while the basics do not change, research can lead to refinements in popular methods, and new data can emerge. This book has applications for professionals and students in many subsets of the mechanical engineering discipline, with carryover into thermal sciences; which include fluid mechanics, combustion and heat transfer; dynamics and vibrations, as well as structural mechanics and materials engineering. An important, long overdue new chapter on Wind Turbines, with a focus on blade aerodynamics, with useful worked examples Includes important material on axial flow compressors and pumps Example questions and answers throughout

Fluid Mechanics Through Problems

Thorough coverage is given to fluid properties, statics, kinematics, pipe flow, dimensional analysis, potential and vortex flow, drag and lift, channel flow,

hydraulic structures, propulsion, and turbomachines.

Fluid Mechanics

Through ten editions, Fox and McDonald's Introduction to Fluid Mechanics has helped students understand the physical concepts, basic principles, and analysis methods of fluid mechanics. This market-leading textbook provides a balanced, systematic approach to mastering critical concepts with the proven Fox-McDonald solution methodology. In-depth yet accessible chapters present governing equations, clearly state assumptions, and relate mathematical results to corresponding physical behavior. Emphasis is placed on the use of control volumes to support a practical, theoretically-inclusive problem-solving approach to the subject. Each comprehensive chapter includes numerous, easy-to-follow examples that illustrate good solution technique and explain challenging points. A broad range of carefully selected topics describe how to apply the governing equations to various problems, and explain physical concepts to enable students to model real-world fluid flow situations. Topics include flow measurement, dimensional analysis and similitude, flow in pipes, ducts, and open channels, fluid machinery, and more. To enhance student learning, the book incorporates numerous pedagogical features including chapter summaries and learning objectives, end-of-chapter problems, useful equations, and design and open-ended problems that encourage students to apply fluid mechanics principles to the design of devices and systems.

Fluid Mechanics

Fluid Mechanics

BASIC Fluid Mechanics combines the application of BASIC programming with fluid mechanics. Topics covered in this book include the fundamentals of the BASIC computer language, properties of fluids, fluid statics, kinematics, and conservation of energy. Force and momentum, viscous flow, flow measurement, and dimensional analysis and similarity are also considered. This book is comprised of nine chapters and begins with a brief introduction to the application of BASIC. The discussion then turns to the various properties of a fluid and the differences between fluids and solids. The chapters that follow explore fluid statics, kinematics, and conservation of energy. The Euler and Bernoulli equations that are used to express the principle of conservation of energy when applied to fluids are highlighted, and calculations for force and momentum are presented. The text also considers laminar flow between parallel plates and in circular tubes, as well as the techniques for measuring flow. The final chapter describes the principles of dimensional analysis and similarity methods. Worked examples developing programs for the solution of typical problems are provided at the end of each chapter. This monograph will be useful to students in an undergraduate program

and practicing engineers who are attempting to get to grips with modern computational procedures.

Problems in Hydraulics and Fluid Mechanics

The Text Provides The Following: Guidance In Building Of Physical And Mathematical Models. Numerical Examples For Each Of The Equations Derived Numbering More Than 100. Sketches And Illustrations Numbering More Than 200. Solved Problems To Highlight Whole Spectrum Of Applications Numbering More Than 400. Objective Questions For Self Evaluation Numbering More Than 700. Graded Problems For Exercise Mostly With Answers, Numbering More Than 450. Stress On Validation Of Numerical Results By Counter Checking.

1000 Solved Problems in Fluid Mechanics (includes Hydraulic Machines)

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

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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 Dynamics via Examples and Solutions

Salient Features: - Comprehensive coverage of Hydraulic Machines in a student-friendly manner - Detailed concept review that aids in thorough and quick revision - Objective questions for competitive examinations as per new pattern - Solutions to numerical objective questions provided on Online Learning Center

A First Course in Fluid Mechanics for Civil Engineers

Fluid Mechanics and the Theory of Flight

Fluid Mechanics and Hydraulic Machines

This comprehensive text provides basic fundamentals of computational theory and

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computational methods. The book is divided into two parts. The first part covers material fundamental to the understanding and application of finite-difference methods. The second part illustrates the use of such methods in solving different types of complex problems encountered in fluid mechanics and heat transfer. The book is replete with worked examples and problems provided at the end of each chapter.

An Introduction to Computational Fluid Mechanics by Example

This treatise on fluid Mechanics ,contains comprehensive treatment of the subject matter in simple,lucid and direct language and envelopes a large number of solved problems properly graded,including typical examples from examination point of view.The book comprise 16 chapters.All chapters of the book are saturated with much needed text supported by simple and self-explanatory figures and a large number of worked examples including Typical Examples(for competitive examinations).At the end of each chapter Highlights,objective Type Questions,Theoretical Questions and Unsolved Examples have been added to make the book a comprehensive and a complete unit in all respects.

Basics of Fluid Mechanics

Fluid Mechanics

Worked Examples in Turbomachinery (Fluid Mechanics and Thermodynamics) is a publication designed to supplement the materials in Fluid Mechanics, Thermodynamics of Turbomachinery, Second Edition. The title provides detailed solution for the unanswered problems from the main textbook. The text first covers dimensional analysis, and then proceeds to tackling thermodynamics. Next, the selection discusses two-dimensional cascades. The text also talks about axial flow turbines and compressors, along with the three-dimensional flow in axial turbo machines. Chapter 7 covers centrifugal compressor and pumps, while Chapter 8 tackles radial flow turbines. The book will be of great use to students of mechanical engineering, particularly those who have access to the main textbook.

Fluid Mechanics

An introduction to CFD fundamentals and using commercial CFD software to solve engineering problems, designed for the wide variety of engineering students new to CFD, and for practicing engineers learning CFD for the first time. Combining an appropriate level of mathematical background, worked examples, computer screen shots, and step by step processes, this book walks the reader through modeling and computing, as well as interpreting CFD results. The first book in the field aimed

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at CFD users rather than developers. New to this edition: A more comprehensive coverage of CFD techniques including discretisation via finite element and spectral element as well as finite difference and finite volume methods and multigrid method. Coverage of different approaches to CFD grid generation in order to closely match how CFD meshing is being used in industry. Additional coverage of high-pressure fluid dynamics and meshless approach to provide a broader overview of the application areas where CFD can be used. 20% new content

Advanced Fluid Mechanics

BASIC Fluid Mechanics combines the application of BASIC programming with fluid mechanics. Topics covered in this book include the fundamentals of the BASIC computer language, properties of fluids, fluid statics, kinematics, and conservation of energy. Force and momentum, viscous flow, flow measurement, and dimensional analysis and similarity are also considered. This book is comprised of nine chapters and begins with a brief introduction to the application of BASIC. The discussion then turns to the various properties of a fluid and the differences between fluids and solids. The chapters that follow explore fluid statics, kinematics, and conservation of energy. The Euler and Bernoulli equations that are used to express the principle of conservation of energy when applied to fluids are highlighted, and calculations for force and momentum are presented. The text also considers laminar flow between parallel plates and in circular tubes, as well as the

techniques for measuring flow. The final chapter describes the principles of dimensional analysis and similarity methods. Worked examples developing programs for the solution of typical problems are provided at the end of each chapter. This monograph will be useful to students in an undergraduate program and practicing engineers who are attempting to get to grips with modern computational procedures.

Computational Fluid Mechanics and Heat Transfer, Second Edition

This textbook offers a unique introduction to hydraulics and fluid mechanics through more than 100 exercises, with guided solutions, which students will find valuable in preparation for their preliminary or qualifying exams and for testing their grasp of the subject. In some exercises two different solution methods are proposed, to highlight the fact that the level of complexity of the calculations is often linked to the choice of method, though in most cases only the simplest method is presented. The exercises are organized by subject, covering forces on planes and curved surfaces; floating bodies; exercises that require the application of linear and angular momentum balancing in inertial and non-inertial references; pipeline systems, with particular applications to industrial plants; hydraulic systems with machines (pumps and turbines); transient phenomena in pipelines;

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and uniform and gradually varied flows in open channels. The book also features appendices that contain selected data and formulas of practical interest. Instructors of courses that address one or all of the above topics will find the exercises of great help in preparing their courses, while researchers will find the book useful as an accessible summary of the topics covered.

Fluid Mechanics Through Worked Examples

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.

Fluid Mechanics

Contains Fluid Flow Topics Relevant to Every EngineerBased 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 Mechanics

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!

Solved Practical Problems in Fluid Mechanics

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As with all the titles in the Macmillan Foundations of Engineering Series, this text adopts the layout and teaching approach of Ken Stroud's Engineering Mathematics (4th ed, 1995). It covers the material on fluid mechanics included in most undergraduate (and equivalent) programmes for students of mechanical, civil or chemical engineering at first year level. The material is presented in a carefully paced, step-by-step manner, which is ideally suited for student self study. There are numerous examples and illustrations of practical applications of the theory. In addition to the many worked examples, there are also exercises, with answers.

Fluid Mechanics and Thermodynamics of Turbomachinery

Work Out Fluid Mechanics has been written to develop a problem solving approach in this core area of Engineering courses. All the essential information is covered in concise fact sheets which are followed by carefully explained worked examples showing the reader how to tackle the different types of problems encountered at this level. At the end of the book there are two specimen examination papers for the reader to monitor progress.

Basic Fluid Mechanics

Fluid mechanics is the study of how fluids behave and interact under various forces

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and in various applied situations, whether in liquid or gas state or both. The author of Advanced Fluid Mechanics compiles pertinent information that are introduced in the more advanced classes at the senior level and at the graduate level.

“Advanced Fluid Mechanics courses typically cover a variety of topics involving fluids in various multiple states (phases), with both elastic and non-elastic qualities, and flowing in complex ways. This new text will integrate both the simple stages of fluid mechanics (“Fundamentals”) with those involving more complex parameters, including Inviscid Flow in multi-dimensions, Viscous Flow and Turbulence, and a succinct introduction to Computational Fluid Dynamics. It will offer exceptional pedagogy, for both classroom use and self-instruction, including many worked-out examples, end-of-chapter problems, and actual computer programs that can be used to reinforce theory with real-world applications. Professional engineers as well as Physicists and Chemists working in the analysis of fluid behavior in complex systems will find the contents of this book useful. All manufacturing companies involved in any sort of systems that encompass fluids and fluid flow analysis (e.g., heat exchangers, air conditioning and refrigeration, chemical processes, etc.) or energy generation (steam boilers, turbines and internal combustion engines, jet propulsion systems, etc.), or fluid systems and fluid power (e.g., hydraulics, piping systems, and so on) will reap the benefits of this text. Offers detailed derivation of fundamental equations for better comprehension of more advanced mathematical analysis Provides groundwork for more advanced topics on boundary layer analysis, unsteady flow, turbulent

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modeling, and computational fluid dynamics Includes worked-out examples and end-of-chapter problems as well as a companion web site with sample computational programs and Solutions Manual

Basic Fluid Mechanics

One of the bestselling books in the field, Introduction to Fluid Mechanics continues to provide readers with a balanced and comprehensive approach to mastering critical concepts. The new seventh edition once again incorporates a proven problem-solving methodology that will help them develop an orderly plan to finding the right solution. It starts with basic equations, then clearly states assumptions, and finally, relates results to expected physical behavior. Many of the steps involved in analysis are simplified by using Excel.

An Introduction to Computational Fluid Mechanics by Example

Fluid Mechanics

Your solution to mastering fluid mechanics Need to learn about the properties of liquids and gases the pressures and forces they exert? Here's your lifeline! Fluid

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Mechanics Demystified helps you absorb the essentials of this challenging engineering topic. Written in an easy-to-follow format, this practical guide begins by reviewing basic principles and discussing fluid statics. Next, you'll dive into fluids in motion, integral and differential equations, dimensional analysis, and similitude. Internal, external, and compressible flows are also covered. Hundreds of worked examples and equations make it easy to understand the material, and end-of-chapter quizzes and two final exam, with solutions to all their problems, help reinforce learning. This hands-on, self-teaching text offers: Numerous figures to illustrate key concepts Details on Bernoulli's equation and the Reynolds number Coverage of entrance, laminar, turbulent, open channel, and boundary layer flows SI units throughout A time-saving approach to performing better on an exam or at work Simple enough for a beginner, but challenging enough for an advanced student, Fluid Mechanics Demystified is your shortcut to understanding this essential engineering subject.

Worked Examples in Turbomachinery (Fluid Mechanics and Thermodynamics).

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www.wiley.com/go/biringen

Introduction to Fluid Mechanics

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