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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 * Historical references throughout the chapters provide readers with the rich history of fluid mechanics. Introduction to Fluid Mechanics, Sixth Edition, is intended to be used in a first course in Fluid Mechanics, taken by a range of engineering majors. The text begins with dimensions, units, and fluid properties, and continues with derivations of key equations used in the control-volume approach. Step-by-step examples focus on everyday situations, and applications. These include flow with friction through pipes and tubes, flow past various two and three dimensional objects, open channel flow, compressible flow, turbomachinery and experimental methods. Design projects give readers a sense of what they will encounter in industry. A solutions manual and figure slides are available for instructors. To classify a book as 'experimental' rather than 'theoretical' or as 'pure' rather than 'applied' is liable to imply unequal distinctions. Nevertheless, some Classification is necessary to tell the potential reader whether the book is for him. In this spirit, this book may be said to treat fluid dynamics as a branch of physics, rather than as a branch of applied mathematics or of engineering. I have often heard expressions of the need for such a book, and certainly I have felt it in my own teaching. I have written it primarily for students of physics and of physics-based applied science, although I hope others may find it useful. The book differs from existing 'fundamental' books in placing much greater emphasis on what we know through laboratory experiments and their physical interpretation and less on the mathematical formalism. It differs from existing 'applied' books in that the choice of topics has been made for the insight they give into the behaviour of fluids in motion rather than for their practical importance. There are differences also from many existing books on fluid dynamics in the branches treated, reflecting to some extent shifts of interest in recent years. In particular, geophysical and astrophysical applications have prompted important fundamental developments in topics such as convection, stratified flow, and the dynamics of rotating fluids. These developments have hitherto been reflected in the contents of textbooks only to a limited extent. White's Fluid Mechanics is praised for its thorough and accurate approach, student friendly writing style, and its concise yet accessible coverage. The electronic version of the text presents these features and more in a CD-ROM with expanded descriptions of certain tables and diagrams through links. The E-Text enhances the text's elegant and solid description of the fundamentals. This fourth edition includes the addition of over 500 new problems, divided categories of "applied problems," "comprehensive applied problems," "design projects," "word problems" and "FE (fundamentals of engineering exam) problems." The book also has an updated, modern design and includes many useful pedagogical and motivational aids such as a perforated "Key Equations Card," boxed equations, and opening chapter photos. Suitable for both a first or second course in fluid mechanics at the graduate or advanced undergraduate level, this book presents 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. Covering the latest developments in this field, this text features edited versions of papers presented at the Sixth International Conference on Advances in Fluid Mechanics. 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. The full text downloaded to your computer With eBooks you can: search for key concepts, words and phrases make highlights and notes as you study share your notes with friends eBooks are downloaded to your computer and accessible either offline through the Bookshelf (available as a free download), available

online and also via the iPad and Android apps. Upon purchase, you'll gain instant access to this eBook. Time limit The eBooks products do not have an expiry date. You will continue to access your digital ebook products whilst you have your Bookshelf installed. Structured introduction covers everything the engineer needs to know: nature of fluids, hydrostatics, differential and integral relations, dimensional analysis, viscous flows, more. Solutions to selected problems. 760 illustrations. 1985 edition. This book discusses the fundamental principles and equations governing the motion of incompressible Newtonian fluids, and simultaneously introduces numerical methods for solving a broad range of problems. Appendices provide a wealth of information that establishes the necessary mathematical and computational framework. Revised and updated, this well established and highly successful book gives a competent account of the fundamental theory of turbomachines. A concise and unified approach to the subject is employed which fills the need for a comprehensive introductory text suitable for most engineering curricula. The theoretical approach, based firmly on the fundamental principles of thermodynamics and fluid mechanics, makes the book particularly suitable for undergraduate courses. It has also proved very useful to professional engineers who require a relevant text on the basic physical processes in turbomachines and their theoretical representation. Several modifications have been incorporated in the text in the light of recent advances in the subject. Further information on cavitation has been included and a new section on the optimum design of a pump inlet taking account of cavitation limitations has been added. Certain chapters have been extended: the section on 'Constant specific mass flow' design now includes the flow equations for a following rotor row, and the section on the definition of blade shapes has been extended to include the parabolic arc camber line blade. A list of symbols used in the text has been added. Each chapter contains a selection of useful problems and answers are provided at the end of the book. SI/Metric units are used throughout Designed for thermodynamics courses in mechanical and aerospace engineering departments, this textbook employs a layered approach that introduces the important concepts of mass, energy and entropy early, before progressively refining them throughout the text. Fundamentals of Fluid Mechanics, 9th Edition offers comprehensive topical coverage, with varied examples and problems, application of the visual component of fluid mechanics, and a strong focus on effective learning. The authors have designed their presentation to enable the gradual development of reader confidence in problem solving. Each important concept is introduced in easy-to-understand terms before more complicated examples are discussed. The 9th Edition includes new coverage of finite control volume analysis and compressible flow, as well as a selection of new problems. Continuing this important work's tradition of extensive real-world applications, each chapter includes The Wide World of Fluids case study boxes in each chapter. In addition, there are a wide variety of videos designed to enhance comprehension, support visualization skill building and engage students more deeply with the material and concepts. This textbook describes the fundamental "physical" aspects of fluid flows for beginners of fluid mechanics in physics, mathematics and engineering, from the point of view of modern physics. It also emphasizes the dynamical aspects of fluid motions rather than the static aspects, illustrating vortex motions, waves, geophysical flows, chaos and turbulence. Beginning with the fundamental concepts of the nature of flows and the properties of fluids, the book presents fundamental conservation equations of mass, momentum and energy, and the equations of motion for both inviscid and viscous fluids. In addition to the fundamentals, this book also covers water waves and sound waves, vortex motions, geophysical flows, nonlinear instability, chaos, and turbulence. Furthermore, it includes the chapters on superfluids and the gauge theory of fluid flows. The material in the book emerged from the lecture notes for an intensive course on Elementary Fluid Mechanics for both undergraduate and postgraduate students of theoretical physics given in 2003 and 2004 at the Nankai Institute of Mathematics (Tianjin) in China. Hence, each chapter may be presented separately as a single lecture. Market_Desc: · Civil Engineers· Chemical Engineers· Mechanical Engineers· Civil, Chemical and Mechanical Engineering Students Special Features: · Explains concepts in a way that increases awareness of contemporary issues as well as the ethical and political implications of their work· Recounts instances of fluid mechanics in real-life through new Fluids in the News sidebars or case study boxes in each chapter· Allows readers to quickly navigate from the list of key concepts to detailed explanations using hyperlinks in the e-text· Includes Fluids Phenomena videos in the e-text, which illustrate various aspects of real-world fluid mechanics· Provides access to download and run FlowLab, an educational CFD program from Fluent, Inc About The Book: With its effective pedagogy, everyday examples, and outstanding collection of practical problems, it's no wonder Fundamentals of Fluid Mechanics is the best-selling fluid mechanics text. The book helps readers develop the skills needed to master the art of solving fluid mechanics problems. Each important concept is considered in terms of simple and easy-to-understand circumstances before more complicated features are introduced. The new edition also includes a free CD-ROM containing the e-text, the entire print component of the book, in searchable PDF format. Chapter 1. Properties of Fluids Chapter 2. Pressure and Its Measurement Chapter 3. Hydrostatic Forces on Surfaces Chapter 4. Buoyancy and Floation Chapter 5. Kinematics of Flow and Ideal Flow Chapter 6. Dynamics of Fluid Flow Chapter 7. Orifices and Mouthpieces Chapter 8. Notches and Weirs Chapter 9. Viscous Flow Chapter 10. Turbulent Flow Chapter 11. Flow Through Pipes Chapter 12. Dimensional and Model Analysis Chapter 13. Boundary Layer Flow Chapter 14. Forces on Sub-merged Bodies Chapter 15. Compressible Flow Chapter 16. Flow in Open Channels Chapter 17. Impact of Jets and Jet Propulsion Chapter 18. Hydraulic Machines - Turbines Chapter 19. Centrifugal Pumps Chapter 20. Reciprocating Pumps Chapter 21. Fluid System Objective Type Questions Appendix Subject Index "White's Fluid Mechanics, sixth edition will continue the text's tradition of excellent problems of different types, precision and accuracy, and good application of concepts to engineering. This is the number one supplement package in Fluids! The new 6th edition will feature the best general problem-solving approach to date, presented at the start of the book and carefully integrated in all examples. Students can progress from general ones to those involving design, multiple steps and computer usage. Word problems are included to build readers' conceptual understanding of the subject, and FE Exam problems (in multiple-choice format) are included. EES (Engineering Equation Solver) software is included so that students can effectively use the computer to model, solve and modify typical fluid mechanics problems. A DVD containing EES is free with every book, and Appendix E describes its use and application to fluid mechanics. A limited version of EES, that does not expire, is included on the CD ROM. Users of the book can also download and distribute the full Academic Version of EES, which is renewed annually with a new username and password. Also an animation library will be included as well as 150 algorithmic problems, in ARIS, McGraw's-Hill's electronic homework management system."--Publisher's description. This book describes the fundamentals of fluid mechanics phenomena for engineers and others. This book is designed to replace all introductory textbook(s) or instructor's notes for the fluid mechanics in undergraduate classes for engineering/science students but also for technical people. It is hoped that the book could be used as a reference book for people who have at least some basics knowledge of science areas such as calculus, physics, etc. This version is a PDF document. The website [<http://www.potto.org/FM/fluidMechanics.pdf>] contains the book broken into sections, and also has LaTeX resources 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: 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 s

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. Fluid Mechanics, Fourth Edition is the leading advanced general text on fluid mechanics. Changes for the 4th edition from the 3rd edition: Updates to several chapters and sections, including Boundary Layers, Turbulence, Geophysical Fluid Dynamics, Thermodynamics and Compressibility Fully revised and updated chapter on computational fluid dynamics New chapter on Biofluid Mechanics by Professor Portonovo Ayyaswamy, the Asa Whitney Professor of Dynamical Engineering at the University of Pennsylvania This classic presentation has never been superseded in its encyclopedic coverage of the subject, and its excellent exposition of fundamental theorems, equations, and detailed methods of solution. Topics include many aspects of the dynamics of liquids and gases and 3-dimensional problems on motion of solids through a liquid. 1932 edition. Fluid Mechanics, understanding and applying the principles of how motions and forces act upon fluids such as gases and liquids, is introduced and comprehensively covered in this widely adopted text. New to this third edition are expanded coverage of such important topics as surface boundary interfaces, improved discussions of such physical and mathematical laws as the Law of Biot and Savart and the Euler Momentum Integral. A very important new section on Computational Fluid Dynamics has been added for the very first time to this edition. Expanded and improved end-of-chapter problems will facilitate the teaching experience for students and instructors alike. This book remains one of the most comprehensive and useful texts on fluid mechanics available today, with applications going from engineering to geophysics, and beyond to biology and general science. * Ample, useful end-of-chapter problems. * Excellent Coverage of Computational Fluid Dynamics. * Coverage of Turbulent Flows. * Solutions Manual available. Munson's FLUID MECHANICS Munson's Fluid Mechanics, offers comprehensive topical coverage, with varied examples and problems, application of visual component of fluid mechanics, and strong focus on effective learning. The text enables the gradual development of confidence in problem solving. Each important concept is introduced in easy-to-understand terms before more complicated examples are discussed. It is a long way from the first edition in 1976 to the present sixth edition in 1995. This edition is dedicated to the memory of Prof. S.P. Luthra (Once Head, Applied Mechanics Director, IIT Delhi) who wrote the foreword to its first edition. So many faculty members and students from different parts of the country and from abroad have accepted the text and contributed to its development. The book has been improved and updated with every edition. Course of Theoretical Physics, Volume 6: Fluid Mechanics discusses several areas of concerns regarding fluid mechanics. The book provides a discussion on the phenomenon in fluid mechanics and their intercorrelations, such as heat transfer, diffusion in fluids, acoustics, theory of combustion, dynamics of superfluids, and relativistic fluid dynamics. The text will be of great interest to researchers whose work involves or concerns fluid mechanics. This is the most comprehensive introductory graduate or advanced undergraduate text in fluid mechanics available. It builds up from the fundamentals, often in a general way, to widespread applications, to technology and geophysics. New to this second edition are discussions on the universal dimensions similarity scaling for the laminar boundary layer equations and on the generalized vector field derivatives. In addition, new material on the generalized streamfunction treatment shows how streamfunction may be used in three-dimensional flows. Finally, a new Computational Fluid Dynamics chapter enables computations of some simple flows and provides entry to more advanced literature. * Basic introduction to the subject of fluid mechanics, intended for undergraduate and beginning graduate students of science and engineering. * Includes topics of special interest for geophysicists and to engineers. * New and generalized treatment of similar laminar boundary layers, streamfunctions for three-dimensional flows, vector field derivatives, and gas dynamics. Also a new generalized treatment of boundary conditions in fluid mechanics, and expanded treatment of viscous flows.

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