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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, 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, 5e is suitable for both a first or second course in fluid mechanics at the graduate or advanced undergraduate level. Along with more than 100 new figures, the text has been reorganized and consolidated to provide a better flow and more cohesion of topics. Changes made to the book's pedagogy in the first several chapters 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

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mechanical principles and draw on phenomena that can be observed in everyday life

The fifth edition of FLUID MECHANICS continues the tradition of precision, accuracy, accessibility and strong conceptual presentation. The author balances three separate approaches \int integral, differential and experimental \int to provide a foundation for fluid mechanics concepts and applications. Chapter 1 now provides a more student-accessible introduction to the field. After covering the basics in the first six chapters, the text moves on to applications, with chapters on ducts, immersed bodies, potential flow, compressible flow, open channel flow and turbomachinery. New material on CFD is included in Chapter 7 to give students a sense of its importance in modern engineering practice. The fifth edition includes a new problem-solving methodology, introduced at the beginning of the book and used consistently in worked-out examples. 1,650 chapter problems are now included, organized into several problem types. 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 CD ROM 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. In addition to the bound-in CD ROM, a full Book Website is available for students and instructors. This contains an electronic Student Study Guide; interactive FE Exam questions; links to professional websites; PowerPoint slides of book figures; and a link to the EES website. A printed Solutions Manual is also available to adopters of

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the fifth edition.

This text starts with the concepts of fluid statics, and moves on to the control/volume approach of determining fluid flow. It offers a careful explanation of topics, and use of step-by-step examples, in presenting fluid mechanics so that beginning students can make sense of fluid concepts and calculations. The new fifth edition adds coverage of experimental methods in fluid mechanics, two-color art figures and text, and a revision of worked examples and problems.

Written for courses in Fluid Mechanics in Civil and Mechanical Engineering, this text covers the fundamental principles of fluid mechanics, as well as specialist topics in more depth. The fundamental material relates to all engineering disciplines that require fluid mechanics. As in previous editions this book demonstrates the link between theory and practice with excellent examples and computer programs. The programs help students perform 3 types of calculations; relatively simple calculations, calculations designed to provide solutions for steady state system operation, and unsteady flow simulations.

Now readers can quickly learn the basic concepts and principles of modern fluid mechanics with this concise book. It clearly presents basic analysis techniques while also addressing practical concerns and applications, such as pipe flow, open-channel flow, flow measurement, and drag and lift. The fourth edition also integrates detailed diagrams, examples and problems throughout the pages in order to emphasize the practical application of the principles.

MECHANICS OF FLUIDS presents fluid mechanics in a manner

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that helps students gain both an understanding of, and an ability to analyze the important phenomena encountered by practicing engineers. The authors succeed in this through the use of several pedagogical tools that help students visualize the many difficult-to-understand phenomena of fluid mechanics. Explanations are based on basic physical concepts as well as mathematics which are accessible to undergraduate engineering students. This fourth edition includes a Multimedia Fluid Mechanics DVD-ROM which harnesses the interactivity of multimedia to improve the teaching and learning of fluid mechanics by illustrating fundamental phenomena and conveying fascinating fluid flows. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

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