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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 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

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. Graebel 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 emphasize 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.

Retaining the features that made previous editions perennial favorites, Fundamental Mechanics of Fluids, Third Edition illustrates basic equations and strategies used to analyze fluid dynamics, mechanisms, and behavior, and offers solutions to fluid flow dilemmas encountered in common engineering applications. The new edition contains completely re

Turbulent Flow and Boundary Layer Theory: Selected Topics and Solved Problems explains fundamental concepts of turbulent flow with boundary layer analysis. A general introduction to turbulent flow familiarizes the reader with the mechanics of turbulence in fluid flow in both nature and engineering

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applications. The book also explains related concepts including transient flow, methods for controlling transients, turbulent models and dynamic equations for unsteady flow through closed conduits. The contents of the book are designed to help both students and teachers in carrying out turbulent flow analysis and solving problems in engineering and hydraulic applications. Key Features - all the basic concepts in turbulent flow are clearly identified and presented in a simple manner with illustrative and practical examples. - includes a self-contained approach to the subject, indicating prerequisite materials and information needed from courses. - each chapter also has a set of questions and problems to test the student's power of comprehending the topics. - provides an exhaustive appendix on interesting examples Turbulent Flow and Boundary Layer Theory: Selected Topics and Solved Problems a useful textbook for students of engineering. It also serves as a quick reference for professionals, researchers and project consultants involved with processes that require turbulent flow and boundary layer methods analysis.

Combustion under sufficiently fuel-lean conditions can have the desirable attributes of high efficiency and low emissions, this being particularly important in light of recent and rapid increases in the cost of fossil fuels and concerns over the links between combustion and global climate change. Lean Combustion is an eminently authoritative, reference work on the latest advances in lean combustion technology and systems. It will offer engineers working on combustion equipment and systems both the fundamentals and the latest developments in more efficient fuel usage and in much-sought-after reductions of undesirable emissions, while still achieving desired power output and performance. This volume brings together research and design of lean combustion systems across the technology spectrum in order to explore the state-of-the-art in lean combustion and its role in meeting current and future demands on combustion systems. Readers will learn about advances in the understanding of ultra lean fuel mixtures and how new types of burners and approaches to managing heat flow can reduce problems often found with lean combustion such as slow, difficult ignition and frequent flame extinction. The book will also offer abundant references and examples of recent real-world applications. Covers all major recent developments in lean combustion science and technology, with new applications in both traditional combustion schemes as well as such novel uses as highly preheated and hydrogen-fueled systems Offers techniques for overcoming difficult ignition problems and flame extinction with lean fuel mixtures Covers new developments in lean combustion using high levels of pre-heat and heat re-circulating burners, as well as the active control of lean combustion instabilities

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This book is an introduction to the theory, practice, and implementation of the Lattice Boltzmann (LB) method, a powerful computational fluid dynamics method that is steadily gaining attention due to its simplicity, scalability, extensibility, and simple handling of complex geometries. The book contains chapters on the method's background, fundamental theory, advanced extensions, and implementation. To aid beginners, the most essential paragraphs in each chapter are highlighted, and the introductory chapters on various LB topics are front-loaded with special "in a nutshell" sections that condense the chapter's most important practical results. Together, these sections can be used to quickly get up and running with the method. Exercises are integrated throughout the text, and frequently asked questions about the method are dealt with in a special section at the beginning. In the book itself and through its web page, readers can find example codes showing how the LB method can be implemented efficiently on a variety of hardware platforms, including multi-core processors, clusters, and graphics processing units. Students and scientists learning and using the LB method will appreciate the wealth of clearly presented and structured information in this volume.

Concise text discusses properties of wings and airfoils in incompressible and primarily inviscid flow, viscid flows, panel methods, finite difference methods, and computation of transonic flows past thin airfoils. 1984 edition.

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