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In keeping with previous editions, this book offers a strong conceptual approach to fluids, based on mechanics principles. The author provides rigorous coverage of underlying math and physics principles, and establishes clear links between the basics of fluid flow and subsequent advanced topics like compressible flow and viscous fluid flow.

Very Good, No Highlights or Markup, all pages are intact.

This book is the outcome of material used in senior and graduate courses for students in civil, mechanical and aeronautical engineering. To meet the needs of this varied audience, the author has labored to make this text as flexible as possible to use. Consequently, the book is divided into three distinct parts of approximately equal size. Part I is entitled Foundations of Solid Mechanics and Variational Methods, Part II is entitled Structural Mechanics; and Part III is entitled Finite Elements. Depending on the background of the students and the aims of the course selected portions can be used from some or all of the three parts of the text to form the basis of an individual course. The purpose of this useful book is to afford the student a sound foundation in variational calculus and energy methods before delving into finite elements. The goal is to make finite elements more understandable in terms of fundamentals and also to provide the student with the background needed to extrapolate the finite element method to areas of study other than solid mechanics. In addition, a number of approximation techniques are made available using the quadratic functional for a boundary-value problem. Finally, the authors' aim is to give students who go through the entire text a balanced and connected exposure to certain key aspects of modern structural and solid mechanics.

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Following a concise overview of fluid mechanics informed by numerous engineering applications and examples, this reference presents and analyzes major types of fluid machinery and the major classes of turbines, as well as pump technology. It offers professionals and students in hydraulic engineering with background concepts as well as practical coverage of modern turbine technologies, fully explaining the advantages of both steam and gas turbines. Description, design, and operational information for the Pelton, Francis, Propeller, and Kaplan turbines are provided, as are outlines of various types of power plants. It provides solved examples, chapter problems, and a thorough case study.

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.

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