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Shames' book provides an especially clear link between the basics of fluid flow and advanced courses such compressible flow or viscous fluid flow. It also includes Matlab applications for the first time, giving students a way to link fluid mechanics problem-solving with the most widely used computational

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& problem modeling tool.

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 have laboured 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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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.

Solid Mechanics: A Variational Approach, Augmented Edition presents a lucid and thoroughly developed approach to solid mechanics for students engaged in the study of elastic structures not seen in other texts currently on the market. This work offers a clear and carefully prepared exposition of variational techniques as they are applied to solid mechanics. Unlike other books in this field, Dym and Shames treat all the necessary theory needed for the study of solid mechanics and include extensive applications. Of particular note is the variational approach used in developing consistent structural theories and in obtaining exact and approximate solutions for many problems. Based on both semester and year-long courses taught to undergraduate seniors and graduate students, this text is geared for programs in aeronautical, civil, and mechanical engineering, and in engineering science. The authors' objective is two-fold: first, to introduce the student to the theory of structures (one- and two-dimensional) as developed from the three-dimensional theory of elasticity; and second, to introduce the student to the strength and utility of variational principles and methods, including briefly making the connection to finite element methods. A complete set of homework problems is included.

This textbook teaches students the basic mechanical behaviour of materials at rest (statics), while

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developing their mastery of engineering methods of analysing and solving problems.

The only complete collection of prevalent approximation methods Unlike any other resource, *Approximate Solution Methods in Engineering Mechanics, Second Edition* offers in-depth coverage of the most common approximate numerical methods used in the solution of physical problems, including those used in popular computer modeling packages. Descriptions of each approximation method are presented with the latest relevant research and developments, providing thorough, working knowledge of the methods and their principles. Approximation methods covered include: * Boundary element method (BEM) * Weighted residuals method * Finite difference method (FDM) * Finite element method (FEM) * Finite strip/layer/prism methods * Meshless method *Approximate Solution Methods in Engineering Mechanics, Second Edition* is a valuable reference guide for mechanical, aerospace, and civil engineers, as well as students in these disciplines.

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 text focuses on the physics of fluid transport in micro- and nanofabricated liquid-phase systems,

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with consideration of gas bubbles, solid particles, and macromolecules. This text was designed with the goal of bringing together several areas that are often taught separately - namely, fluid mechanics, electrodynamics, and interfacial chemistry and electrochemistry - with a focused goal of preparing the modern microfluidics researcher to analyse and model continuum fluid mechanical systems encountered when working with micro- and nanofabricated devices. This text serves as a useful reference for practising researchers but is designed primarily for classroom instruction. Worked sample problems are included throughout to assist the student, and exercises at the end of each chapter help facilitate class learning.

Basic fluid dynamic theory and applications in a single, authoritative reference The growing capabilities of computational fluid dynamics and the development of laser velocimeters and other new instrumentation have made a thorough understanding of classic fluid theory and laws more critical today than ever before. Fundamentals of Fluid Mechanics is a vital repository of essential information on this crucial subject. It brings together the contributions of recognized experts from around the world to cover all of the concepts of classical fluid mechanics-from the basic properties of liquids through thermodynamics, flow theory, and gas dynamics. With answers for the practicing engineer and real-world insights for the student, it includes applications from the mechanical, civil, aerospace, chemical, and other fields. Whether used as a refresher or for first-time learning, Fundamentals of Fluid Mechanics is an important new asset for engineers and students in many different disciplines.