

## Applied Hydraulic Engineering Chandramouli Yesdee

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This book is specially designed for the graduate students of civil engineering. The text covers the syllabi requirements of almost all technical universities. A lucid pattern, both in terms of language and content, has been adopted throughout the text. This book will prove to be a boon to the students preparing for engineering and other competitive examinations. Key Features \* Sufficient conceptual information is included for a thorough understanding of the subject. \* Includes a large number of worked examples, summary, end of topic questions, problems, and multiple choice questions. \* Lays foundation on the practical applicability of hydraulic engineering to the real life situations. \* Includes up-to-date coverage of topics in hydraulic engineering.

This book provides comprehensive coverage of the fundamental concepts and all the key topics of interest in Strength of Materials with an emphasis on solving practical problems, from the first principles, related to the design of structural members, mechanical devices and systems in several fields of engineering. The book is organized to present a thorough treatment of stress analysis first. This treatment of basic principles is followed by appropriate application of analysis techniques and design approaches to trusses and cables, torsion in circular shaft, deflection of beams, buckling of straight columns and struts, and analysis of thick- and thin-walled cylinders under internal and external pressure. The book features clear explanations, a wealth of excellent worked-out examples of practical applications, and challenging problems. The book is intended for the undergraduate students of civil, mechanical, electrical, chemical, aeronautical, and production and industrial engineering. Key Features Provides a large number of worked-out examples to help students comprehend the concepts with ease. Gives chapter-end review questions to test students' understanding of the subject. Includes chapter-end numerical problems to enhance the problem-solving ability of students. Many of the problems depict realistic situations encountered in engineering practice. Incorporates objective type questions to help students assess their overall mastery of the subject.

This book has been developed to enable engineering students understand basic concepts of Thermal Engineering in a simple and easy to understand manner.

Fluid Mechanics and Machinery features exhaustive coverage of the essential concepts of the mechanics of fluids, both static and dynamic. It also provides an overview of the design and operation of various hydraulic machines such as pumps and turbines. The book also features numerous solved examples in order to help students grasp the fundamentals and apply them to real-life situations. Beginning with discussion of the properties of fluids, Fluid Mechanics and Machinery gives detailed information on topics such as fluid pressure and its measurement, principles of buoyancy and flotation, and fluid statics, kinematics, and dynamics. It then moves on to discuss dimensional analysis and flow of fluids through orifices, mouthpieces, and pipes, and over notches and weirs. More advanced topics such as vortex flow, impact of jets, and flow of compressible fluids are then dealt with in separate chapters. Finally, a thorough overview of the design and operation of various fluid machines such as pumps and turbines explains the practical applications of fluid forces to students.

Open Channel Flow, 2nd edition is written for senior-level undergraduate and graduate courses on steady and unsteady open-channel flow. The book is comprised of two parts: Part I covers steady flow and Part II describes unsteady flow. The second edition features considerable emphasis on the presentation of modern methods for computer analyses; full coverage of unsteady flow; inclusion of typical computer programs; new problem sets and a complete solution manual for instructors.

This contributed volume encompasses contributions by eminent researchers in the field of geotechnical engineering. The chapters of this book are based on the keynote and sub-theme lectures delivered at the Indian Geotechnical Conference 2017. The book provides a comprehensive overview of the current state-of-the-art research and practices in different domains of geotechnical engineering in the areas of soil dynamics, earth retaining structures, ground improvement, and geotechnical and geophysical investigations. It will serve as an ideal resource for academics, researchers, practicing professionals, and students alike.

The fundamental concepts of Theory of Elasticity have been widely used at various stages in the study of solid mechanics, fluid mechanics, geomechanics and material engineering. The basic concepts are used in their simpler form for initial analysis before preliminary design of engineering structures and the advanced principles are used for complex analysis before final design. Many of the graduate and postgraduate courses employ the concepts of elasticity as the basis for further development of engineering principles. Therefore, it is necessary as a first step to understand clearly the basic principles and corresponding mathematical expressions involved in theory of elasticity. Since the solutions to most of the engineering problems are obtained by solving the governing equations, it is imperative that one should learn the origin of such equations and the basis on which they have been derived. For this reason, attention has been given in this book to present the derivations of various fundamental equations in an extensive manner. Key Features \* Explains the complex theory, in a very lucid way, to enable an average student to understand the basic principles. \* Key concepts to help the instructor to deliver the lecture in a better way. \* Large number of worked examples. \* Objective type questions to test the students' understanding of the subject. \* Chapter end review questions to enhance problem solving ability.

This book provides a thorough understanding of the principles and applications of engineering mechanics. Beginning with an introduction to the subject, the book provides a detailed treatment of systems of forces and explains the concepts of centroid and centre of gravity, moment of inertia, virtual work, friction, kinematics of particle and motion of projectiles. It also discusses the laws of motion, power and energy, and collision of elastic bodies in dynamics. Topics are dealt with in a well-organised sequence with proper explanations and simple mathematical formulations. Key features: Includes both vector and scalar analyses of topics. Emphasises the practical applicability of engineering mechanics to real-life situations. Provides key concepts to help instructors deliver improved lectures. Includes a large number of worked-out examples. Provides chapter-end review questions to test students' understanding of the subject. Includes chapter-end numerical problems to enhance problem-solving ability. Incorporates objective type questions to help students prepare for examinations.

The long awaited second edition of this very successful textbook for graduate students covers the study of first and second order of Partial Differential Equations. New to this edition: Improved presentation Exercises and worked examples at the end of each chapter with solutions Also useful for students of Engineering and Physics

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