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Advanced Engineering Fluid Mechanics by K. Muralidhar

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This volume contains major chapters on derivation of Navier-Stokes equations, exact solutions, potential theory, boundary-layer theory and turbulent flows. Shorter chapters on hydrodynamic stability and compressible flow are included. An introduction to numerical methods for boundary-layer equations and a review of experimental techniques are also covered. All chapters contain worked examples followed by a large collection of unsolved problems. New concepts are introduced systematically and the reader is led to analyze challenging applications. Taken together, the text and the problems are intended to enable engineers to take up quickly the analysis of practical problems.

Fluid mechanics continues to dominate the world of engineering. This book bridges the gap between first and higher level text books on the subject. It shows that the approximate approaches are essentially globally averaged versions of the local treatment, that in turn is covered in considerable detail in the second edition.

Fluid mechanics continues to dominate the world of engineering. Applications only seem to be proliferating, and the importance of teaching the subject from first principles is widely felt. The second edition maintained this focus, while continuing to establish the link between principles and practice. The Third edition includes a substantial revision of Chapter 2. The link between a control volume approach and a boundary-value formulation stemming from Navier-Stokes equations is explained. The utility of momentum and energy equations for analysis at the scale of a control volume is highlighted. Bernoulli equation is shown to be a special form of the more general energy equation. Various suggestions and improvements have also been incorporated in other chapters. The goal, as before, is to train students so that they can create, design and analyze flow systems in the real world. This book was first published in 1996, and a revised edition was released in 1999. Quite a few comments and suggestions were received from students and colleagues. These ideas formed the basis of the second edition in 2005. The present edition continues to bridge the gap between first and higher level text books on the subject. It shows that the approximate approaches of Chapter 2 are essentially globally averaged versions of the local treatment that, in turn is covered in considerable detail in subsequent chapters. NEW TO THE THIRD EDITION: - Link between a control volume approach and a boundary-value formulation arising from Navier-Stokes equations - Utility of momentum and energy equations for analysis at the scale of a control volume - Bernoulli equation shown to be a special form of the more general energy equation - Examples of flow rate and force calculations from a control volume approach - Additional unsolved examples in Chapter 2

This volume comprises the proceedings of the 42nd National and 5th International Conference on Fluid Mechanics and Fluid Power held at IIT Kanpur in December, 2014. The conference proceedings encapsulate the best deliberations held during the conference. The diversity of participation in the conference, from academia, industry and research laboratories reflects in the articles appearing in the volume. This contributed volume has articles from authors who have participated in the conference on thematic areas such as Fundamental Issues and Perspectives in Fluid Mechanics; Measurement Techniques and Instrumentation; Computational Fluid Dynamics; Instability, Transition and Turbulence; Turbomachinery; Multiphase Flows; Fluid-Structure Interaction and Flow-Induced Noise; Microfluidics; Bio-inspired Fluid Mechanics; Internal Combustion Engines and Gas Turbines; and Specialized Topics. The contents of this volume will prove useful to researchers from industry and academia alike.

Foundations and Applications of Mechanics: Volume II, Fluid Mechanics shows how suitable approximations such as ideal fluid flow model, boundary layer methods, and the acoustic approximation, can help solve problems of practical importance. The author proceeds from the general to the particular, making it clear at each stage what assumptions have been made to obtain a particular approximation. In his discussion of compressible fluids, Jog steers away from using gas tables and emphasizes obtaining solutions by numerical techniques - an approach more amenable to computer solutions. He discusses the control volume and the differential equation forms of governing equations in detail and uses examples to demonstrate the advantages and shortcomings of each approach.

Engineering Fluid Mechanics discusses applications of Bernoulli's equation, momentum theorem, turbomachines and dimensional analysis, discusses mechanics of laminar and turbulent flows, boundary layers, incompressible inviscid flows, compressible flows and computational fluid dynamics. Introduction to wave hydrodynamics, experimental techniques and analysis of experimental uncertainty.

Fluid Mechanics has transformed from fundamental subject to application-oriented subject. Over the years, numerous experts introduced number of books on the theme. Majority of them are rather theoretical with numerical problems and derivations. However, due to increase in computational facilities and availability of MATLAB and equivalent software tools, the subject is also transforming into computational perspective. We firmly believe that this new dimension will greatly benefit present generation students. The present book is an effort to tackle the subject in MATLAB environment and consists of 16 chapters. The book can support undergraduate students in fluid mechanics, and can also be referred to as a text/reference book. KEY FEATURES □ Explanation of Fluid Mechanics in MATLAB in structured and lucid manner □ 161 Example Problems supported by corresponding MATLAB codes compatible with 2016a version □ 162 Exercise Problems for reinforced learning □ 12 MP4 Videos for the demonstration of MATLAB codes for effective understanding while enhancing thinking ability of readers □ A Question Bank containing 261 Representative Questions and 120 Numerical Problems TARGET AUDIENCE Students of B.E/B.Tech and AMIE (Civil, Mechanical and Chemical Engineering) & Useful to students preparing for GATE and UPSC examinations.

Excellent graduate-level text explores virtually every important subject in the fields of subsonic, transonic, supersonic, and hypersonic aerodynamics and dynamics, demonstrating their interface in atmospheric flight vehicle design. 1974 edition.