

Modern Compressible Flow Historical Perspective Anderson

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Overview. Anderson's book provides the most accessible approach to compressible flow for Mechanical and Aerospace Engineering students and professionals. In keeping with previous versions, the 3rd edition uses numerous historical vignettes that show the evolution of the field. New pedagogical features:"Roadmaps" showing the development of a given topic, and "Design Boxes" giving examples of design decisions:will make the 3rd edition even more practical and user-friendly than before.

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Anderson's book provides the most accessible approach to compressible flow for Mechanical and Aerospace Engineering students and professionals. In keeping with previous versions, the 3rd edition uses numerous historical vignettes that show the evolution of the field.New pedagogical features--"Roadmaps" showing the development of a given topic, and "Design Boxes" giving examples of design decisions--will make the 3rd edition even more practical and user-friendly than before.The 3rd edition strikes a careful balance between classical methods of determining compressible flow, and modern numerical and computer techniques (such as CFD) now used widely in industry & research.A new Book Website will contain all problem solutions for instructors.

The response to the first three editions of Modern Compressible Flow: With Historical Perspective, from students, faculty, and practicing professionals has been overwhelmingly favorable. Therefore, this new edition preserves much of this successful content while adding important new components. It preserves the author's informal writing style that talks to the reader, that gains the reader's interest, and makes the study of compressible flow an enjoyable experience. Moreover, it blends the classical nature of the subject with modern aspects of computational fluid dynamics (CFD) and high temperature gas dynamics so important to modern applications of compressible flow. In short, this book is a unique teaching and learning experience.

Anderson's book provides the most accessible approach to compressible flow for Mechanical and Aerospace Engineering students and professionals. In keeping with previous versions, the 3rd edition uses numerous historical vignettes that show the evolution of the field. New pedagogical features--"Roadmaps" showing the development of a given topic, and "Design Boxes" giving examples of design decisions--will make the 3rd edition even more practical and user-friendly than before. The 3rd edition strikes a careful balance between classical methods of determining compressible flow, and modern numerical and computer techniques (such as CFD) now used widely in industry & research. A new Book Website will contain all problem solutions for instructors.

"This is a book on modern compressible flows. In essence, this book presents the fundamentals of classical compressible flow as they have evolved over the past two centuries, but with added emphasis on two new dimensions that have become so important over the past two decades, namely: Modern computational fluid dynamics and High-temperature flows. In short, the modern compressible flow of today is a mutually supportive mixture of classical analysis along with computational techniques, with the treatment of high temperature effects being almost routine"--

Modern Compressible Flow, Second Edition, presents the fundamentals of classical compressible flow along with the latest coverage of modern compressible flow dynamics and high-temperature flows. The second edition maintains an engaging writing style and offers philosophical and historical perspectives on the topic. It also continues to offer a variety of problems-providing readers with a practical understanding. The second edition includes the latest developments in the field of modern compressible flow.

This book is a self-contained text for those students and readers interested in learning hypersonic flow and high-temperature gas dynamics. It assumes no prior familiarity with either subject on the part of the reader. If you have never studied hypersonic and/or high-temperature gas dynamics before, and if you have never worked extensively in the area, then this book is for you. On the other hand, if you have worked and/or are working in these areas, and you want a cohesive presentation of the fundamentals, a development of important theory and techniques, a discussion of the salient results with emphasis on the physical aspects, and a presentation of modern thinking in these areas, then this book is also for you. In other words, this book is designed for two roles: 1) as an effective classroom text that can be used with ease by the instructor, and understood with ease by the student; and 2) as a viable, professional working tool for engineers, scientists, and managers who have any contact in their jobs with hypersonic and/or high-temperature flow.

The increasing importance of concepts from compressible fluid flow theory for aeronautical applications makes the republication of this first-rate text particularly timely. Intended mainly for aeronautics students, the text will also be helpful to practicing engineers and scientists who work on problems involving the aerodynamics of compressible fluids. Covering the general principles of gas dynamics to provide a working understanding of the essentials of gas flow, the contents of this book form the foundation for a study of the specialized literature and should give the necessary background for reading original papers on the subject. Topics include introductory concepts from thermodynamics, including entropy, reciprocity relations, equilibrium conditions, the law of mass action and condensation; one-dimensional gasdynamics, one-dimensional wave motion, waves in supersonic flow, flow in ducts and wind tunnels, methods of measurement, the equations of frictionless flow, small-perturbation theory, transonic flow, effects of viscosity and conductivity, and much more. The text includes numerous detailed figures and several useful tables, while concluding exercises demonstrate the application of the material in the text and outline additional subjects. Advanced undergraduate or graduate physics and engineering students with at least a working knowledge of calculus and basic physics will profit immensely from studying this outstanding volume.

In keeping with the successful previous edition, Anderson carries over the second edition content into the third edition while adding selected topics and examples. New coverage on the Computational Fluid Dynamics (CFD) and new illustrations to help the students to understand the basic concepts. More than a dozen "design boxes" are included to help students focus on the practical applications.

This new text provides clear explanations of the physical phenomena encountered in compressible fluid flow by providing more practical applications, more worked examples, and more detail about the underlying assumptions than other texts. Its broad topic coverage includes a thorough review of the fundamentals, a wide array of applications, and unique coverage of hypersonic flow. This is the ideal text for compressible fluid flow or gas dynamics courses found in mechanical or aerospace engineering programs.

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