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Hypersonic and High Temperature Gas DynamicsModern Compressible FlowModern Compressible Flow: With Historical PerspectiveModern Compressible Flow, with Historical PerspectiveMechanical VibrationAircraft Structures for Engineering StudentsHeat ConvectionFlow-Induced VibrationsCompressible Fluid FlowLoose Leaf for Introduction to FlightComputational Methods for Fluid DynamicsPrinciples of Composite Material MechanicsAircraft Performance & DesignFundamentals of AerodynamicsGas DynamicsThe ICU BookSolutions Manual to Accompany Modern Compressible FlowFundamentals of Computational Fluid DynamicsFundamentals of AerodynamicsLow-Speed Wind Tunnel TestingGas DynamicsFundamentals of AerodynamicsFUNDAMENTALS OF COMPRESSIBLE FLUID DYNAMICSThe Finite Volume Method in Computational Fluid DynamicsViscous Fluid Flow 3eFundamentals of Gas DynamicsGas Dynamics, Multi-Dimensional FlowSpaceflight DynamicsAnalysis of the K-Epsilon Turbulence ModelModern Compressible FlowMechanics of FlightApplied Gas DynamicsAerodynamics for Engineering StudentsKinetic Theory and Fluid DynamicsA History of AerodynamicsComputational Fluid Dynamics: Principles and ApplicationsLaminar Flow TheoryPipe FlowEngineering Fluid MechanicsComputational Fluid Dynamics

Hypersonic and High Temperature Gas Dynamics

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.

Modern Compressible Flow: With Historical Perspective

Meant as a senior or graduate level elective in Mechanical Engineering, this text includes a number of problems, explanations of, & references to ongoing controversies & trends. It contains information on technological advances, such as micro- and nano-technology, turbulence modeling, & computational fluid dynamics.

Modern Compressible Flow, with Historical Perspective

Authoritative, highly readable history of aerodynamics and the major theorists and their contributions.

Mechanical Vibration

Aircraft Structures for Engineering Students

This textbook explores both the theoretical foundation of the Finite Volume Method (FVM) and its applications in Computational Fluid Dynamics (CFD). Readers will discover a thorough explanation of the FVM numerics and algorithms used for the simulation of incompressible and compressible fluid flows, along with a detailed

examination of the components needed for the development of a collocated unstructured pressure-based CFD solver. Two particular CFD codes are explored. The first is uFVM, a three-dimensional unstructured pressure-based finite volume academic CFD code, implemented within Matlab. The second is OpenFOAM®, an open source framework used in the development of a range of CFD programs for the simulation of industrial scale flow problems. With over 220 figures, numerous examples and more than one hundred exercise on FVM numerics, programming, and applications, this textbook is suitable for use in an introductory course on the FVM, in an advanced course on numerics, and as a reference for CFD programmers and researchers.

Heat Convection

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.

Flow-Induced Vibrations

Compressible Fluid Flow

Written specifically for students of aeronautical engineering covers not only the fundamentals of elasticity, but also the associated topics of airworthiness and aeroelasticity. A self-contained course in aircraft structures, coverage corresponds to and complements the general course work from the beginning of the second year of study through the advanced topics of the final year. The first section covers includes sufficient elasticity theory to provide the basic tools of structural analysis, indicating the role and limitations of each analytical method. The second section covers the analysis of the thin-walled, cellular type of structure peculiar to aircraft and features discussion of structural materials, the fabrication and function of structural components, and an introduction to structural idealization. This section also investigates modifications necessary to account for axial constraint effects and presents computational methods of structural analysis. Final chapters cover airworthiness and aeroelasticity. Numerous worked and unworked problems with answers are included.

Loose Leaf for Introduction to Flight

This informative reference offers and overview of the techniques used to solve problems in fluid mechanics on computers and describes in detail those most often used in practice. Advanced techniques in computational fluid dynamics are presented, including direct and large-eddy simulation of turbulence, multigrid methods, parallel computing, moving grids, boundary-fitted grids, and free surface flows. 100 illus.

Computational Methods for Fluid Dynamics

New edition of the popular textbook, comprehensively updated throughout and now includes a new dedicated website for gas dynamic calculations The thoroughly revised and updated third edition of Fundamentals of Gas Dynamics maintains the focus on gas flows below hypersonic. This targeted approach provides a cohesive and rigorous examination of most practical engineering problems in this gas dynamics flow regime. The conventional one-dimensional flow approach together with the role of temperature-entropy diagrams are highlighted throughout. The authors—noted experts in the field—include a modern computational aid, illustrative charts and tables, and myriad examples of varying degrees of difficulty to aid in the understanding of the material presented. The updated edition of Fundamentals of Gas Dynamics includes new sections on the shock tube, the aerospike nozzle, and the gas dynamic laser. The book contains all equations, tables, and charts necessary to work the problems and exercises in each chapter.

This book's accessible but rigorous style: Offers a comprehensively updated edition that includes new problems and examples Covers fundamentals of gas flows targeting those below hypersonic Presents the one-dimensional flow approach and highlights the role of temperature-entropy diagrams Contains new sections that examine the shock tube, the aerospike nozzle, the gas dynamic laser, and an expanded coverage of rocket propulsion Explores applications of gas dynamics to aircraft and rocket engines Includes behavioral objectives, summaries, and check tests to aid with learning Written for students in mechanical and aerospace engineering and professionals and researchers in the field, the third edition of Fundamentals of Gas Dynamics has been updated to include recent developments in the field and retains all its learning aids.

Principles of Composite Material Mechanics

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.

Aircraft Performance & Design

Principles of Composite Material Mechanics covers a unique blend of classical and contemporary mechanics of composites technologies. It presents analytical approaches ranging from the elementary mechanics of materials to more advanced elasticity and finite element numerical methods, discusses novel materials such as nanocomposites and hybrid multiscale composites, and examines the hygrothermal, viscoelastic, and dynamic behavior of composites. This fully revised and expanded Fourth Edition of the popular bestseller reflects the current state of the art, fresh insight gleaned from the author's ongoing composites research, and pedagogical improvements based on feedback from students, colleagues, and the author's own course notes. New to the Fourth Edition New worked-out examples and homework problems are added in most chapters, bringing the grand total to 95 worked-out examples (a 19% increase) and 212 homework problems (a 12% increase) Worked-out example problems and homework problems are now integrated within the chapters, making it clear to which section each example problem and homework problem relates Answers to selected homework problems are featured in the back of the book Principles of Composite Material Mechanics, Fourth Edition provides a solid foundation upon which students can begin work in composite materials science and engineering. A complete solutions manual is included with qualifying course adoption.

Fundamentals of Aerodynamics

Anderson's book provides the most accessible approach to compressible flow for Mechanical and Aerospace Engineering students. 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 student-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 in industry & research.A new Book Website will contain all problem solutions for instructors, and extended information on CFD.

Gas Dynamics

Computational Fluid Dynamics (CFD) is an important design tool in engineering and also a substantial research tool in various physical sciences as well as in biology. The objective of this book is to provide university students with a solid foundation for understanding the numerical methods employed in today’s CFD and to familiarise them with modern CFD codes by hands-on experience. It is also intended for engineers and scientists starting to work in the field of CFD or for

those who apply CFD codes. Due to the detailed index, the text can serve as a reference handbook too. Each chapter includes an extensive bibliography, which provides an excellent basis for further studies.

The ICU Book

Graduate-level text synthesizes research and experience from disparate fields to form guidelines for dealing with vibration phenomena, particularly in terms of assessing sources of excitation in a flow system. 1994 edition.

Solutions Manual to Accompany Modern Compressible Flow

Fundamentals of Computational Fluid Dynamics

John D. Anderson's textbooks in aeronautical and aerospace engineering have been a cornerstone of McGraw-Hill's success in the engineering discipline for more than two decades. The fifth SI edition of Fundamentals of Aerodynamics continues to offer the most reliable, interesting and up-to-date resources for students and teachers of aerodynamics. Users of past editions will appreciate the continued use of design boxes, historical contents, plentiful worked examples, chapter-opening

road maps and other pedagogical features that play a supporting role in Anderson's focus on fundamental concepts. NEW FEATURES * New sections on airplane lift and drag, the blended-wing-body concept, the origin of the swept-wing concept, supersonic flow over cones, hypersonic viscous flow and aerodynamic heating and the design of hypersonic waverider configurations. * Many additional worked examples and homework problems to provide even more key concept practice for students. * Shortened and streamlined Part 4, "Viscous Flow".

Fundamentals of Aerodynamics

Low-Speed Wind Tunnel Testing

Designed for undergraduate courses in Spacecraft Dynamics and Orbital Mechanics, this new edition offers a three-dimensional treatment of dynamics discussions of rigid body dynamics, rocket trajectories, and the space environment. An expert in his field, author William E. Wiesel presents a wealth of information in an easy-to-understand manner without the daunting mathematical rigor of graduate texts. Reference is made to actual flight vehicles and satellites to give students background on the type of work currently being done in this field.

Gas Dynamics

1 Compressible Flow - Some History and Introductory Thoughts 2 Integral Forms of the Conservation Equations for Inviscid Flows 3 One-Dimensional Flow 4 Oblique Shock and Expansion Waves 5 Quasi-One-Dimensional Flow 6 Differential Conservation Equations for Inviscid Flows 7 Unsteady Wave Motion 8 General Conservation Equations Revisited: Velocity Potential Equation 9 Linearized Flow 10 Conical Flow 11 Numerical Techniques for Steady Supersonic Flow 12 The Time-Marching Technique: With Application to Supersonic Blunt Bodies and Nozzles 13 Three-Dimensional Flow 14 Transonic Flow 15 Hypersonic Flow 16 Properties of High-Temperature Gases 17 High-Temperature Flows: Basic Examples Appendix A Appendix B An Illustration and Exercise of Computational Fluid Dynamics.

Fundamentals of Aerodynamics

FUNDAMENTALS OF COMPRESSIBLE FLUID DYNAMICS

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 conepts. More than a dozen "design boxes" are included to help students focus on the practical applications.

The Finite Volume Method in Computational Fluid Dynamics

Aerodynamics for Engineering Students, Fifth Edition, is the leading course text on aerodynamics. The book has been revised to include the latest developments in flow control and boundary layers, and their influence on modern wing design as well as introducing recent advances in the understanding of fundamental fluid dynamics. Computational methods have been expanded and updated to reflect the modern approaches to aerodynamic design and research in the aeronautical industry and elsewhere, and the structure of the text has been developed to reflect current course requirements. The book is designed to be accessible and practical. Theory is developed logically within each chapter with notation, symbols and units well defined throughout, and the text is fully illustrated with worked examples and exercises. The book recognizes the extensive use of computational techniques in contemporary aeronautical design. However, it can be used as a stand-alone text, reflecting the needs of many courses in the field for a thorough grounding in the underlying principles of the subject. The book is an ideal resource for undergraduate and postgraduate students in aeronautical engineering. The classic text, expanded and updated. Includes latest developments in flow control, boundary layers and fluid dynamics. Fully illustrated throughout with illustrations,

worked examples and exercises.

Viscous Fluid Flow 3e

The chosen semi-discrete approach of a reduction procedure of partial differential equations to ordinary differential equations and finally to difference equations gives the book its distinctiveness and provides a sound basis for a deep understanding of the fundamental concepts in computational fluid dynamics.

Fundamentals of Gas Dynamics

A revised edition to applied gas dynamics with exclusive coverage on jets and additional sets of problems and examples The revised and updated second edition of Applied Gas Dynamics offers an authoritative guide to the science of gas dynamics. Written by a noted expert on the topic, the text contains a comprehensive review of the topic; from a definition of the subject, to the three essential processes of this science: the isentropic process, shock and expansion process, and Fanno and Rayleigh flows. In this revised edition, there are additional worked examples that highlight many concepts, including moving shocks, and a section on critical Mach number is included that helps to illuminate the concept. The second edition also contains new exercise problems with the answers added.

In addition, the information on ram jets is expanded with helpful worked examples. It explores the entire spectrum of the ram jet theory and includes a set of exercise problems to aid in the understanding of the theory presented. This important text: Includes a wealth of new solved examples that describe the features involved in the design of gas dynamic devices Contains a chapter on jets; this is the first textbook material available on high-speed jets Offers comprehensive and simultaneous coverage of both the theory and application Includes additional information designed to help with an understanding of the material covered Written for graduate students and advanced undergraduates in aerospace engineering and mechanical engineering, Applied Gas Dynamics, Second Edition expands on the original edition to include not only the basic information on the science of gas dynamics but also contains information on high-speed jets.

Gas Dynamics, Multi-Dimensional Flow

Pipe Flow provides the information required to design and analyze the piping systems needed to support a broad range of industrial operations, distribution systems, and power plants. Throughout the book, the authors demonstrate how to accurately predict and manage pressure loss while working with a variety of piping systems and piping components. The book draws together and reviews the growing body of experimental and theoretical research, including important loss coefficient data for a wide selection of piping components. Experimental test data

and published formulas are examined, integrated and organized into broadly applicable equations. The results are also presented in straightforward tables and diagrams. Sample problems and their solution are provided throughout the book, demonstrating how core concepts are applied in practice. In addition, references and further reading sections enable the readers to explore all the topics in greater depth. With its clear explanations, Pipe Flow is recommended as a textbook for engineering students and as a reference for professional engineers who need to design, operate, and troubleshoot piping systems. The book employs the English gravitational system as well as the International System (or SI).

Spaceflight Dynamics

Written by one of the most succesful aerospace authors, this new book develops aircraft performance techniques from first principles and applies then to real airplanes. It also address a philosophy of, and techniques for aircraft design. By developing and discussing these two subjects in a single text, the author captures a degree of synergism not found in other texts. The book is written in a conversational style, a trademark of all of John Anderson's texts, to enhance the readers' understanding.

Analysis of the K-Epsilon Turbulence Model

Aimed at applied mathematicians interested in the numerical simulation of turbulent flows. Centered around the k-&epsis; model, it also deals with other models such as one equation models, subgrid scale models and Reynolds Stress models. Presents the k-&epsis; method for turbulence in a language familiar to applied mathematicians, but has none of the technicalities of turbulence theory.

Modern Compressible Flow

This textbook addresses the elementary concepts of flight mechanics, everything from the equations of motion to aircraft performance.

Mechanics of Flight

Fluid mechanics is one of the greatest accomplishments of classical physics. The Navier-Stokes equations, first derived in the eighteenth century, serve as an accurate mathematical model with which to describe the flow of a broad class of real fluids. Not only is the subject of interest to mathematicians and physicists, but it is also indispensable to mechanical, aeronautical, and chemical engineers, who have to apply the equations to real-world examples, such as the flow of air around an aircraft wing or the motion of liquid droplets in a suspension. In this book, which first appeared in a comprehensive collection of essays entitled The Theory of

Laminar Flows (Princeton, 1964), P. A. Lagerstrom imparts the essential theoretical framework of laminar flows to the reader. A concise and elegant description, Lagerstrom's work remains a model piece of writing and has much to offer today's reader seeking an introduction to the flow of nonturbulent fluids. Beginning with the conservation laws that result in the equation of continuity, the Navier-Stokes equation, and the energy transport equation, Lagerstrom moves on to consider viscous waves, low Reynolds-number approximations such as Stokes flow and the Oseen equations, and then high Reynolds-number approximations that are used to describe boundary layers, jets, and wakes. Finally, he examines some compressibility effects, such as those that occur in the laminar boundary layer around a flat plate, both with and without a pressure gradient.

Applied Gas Dynamics

This best-selling resource provides a general overview and basic information for all adult intensive care units. The material is presented in a brief and quick-access format which allows for topic and exam review. It provides enough detailed and specific information to address most all questions and problems that arise in the ICU. Emphasis on fundamental principles in the text should prove useful for patient care outside the ICU as well. New chapters in this edition include hyperthermia and hypothermia syndromes; infection control in the ICU; and severe airflow obstruction. Sections have been reorganized and consolidated when appropriate to

reinforce concepts.

Aerodynamics for Engineering Students

Intended for a first course in aerodynamics at undergraduate level, this text is distinguished by strong coverage of the fundamentals presented in an easy-to-understand style. This edition preserves the emphasis on fundamentals while adding much new applied material to give readers a feel for the real world of aerodynamics. It also includes an expanded chapter on hypersonic aerodynamics.

Kinetic Theory and Fluid Dynamics

This book systematically introduces engineering fluid mechanics in a simple and understandable way, focusing on the basic concepts, principles and methods. Engineering fluid mechanics is necessary for professionals and students in fields such as civil, environmental, mechanical, and petroleum engineering. Unlike most of the current textbooks and monographs, which are too complicated and include huge numbers of math formulas and equations, this book introduces essential concepts and flow rules in a clear and elementary way that can be used in further research. In addition, it provides numerous useful tables and diagrams that can be quickly and directly checked for industry applications. Furthermore, it highlights

the connection between free flow and porous flow, which can aid advanced interdisciplinary research such as nanotech and environmental science. Last but not least, each chapter presents a variety of problems to offer readers a better understanding about the principles and applications of fluid mechanics.

A History of Aerodynamics

This text draws on Professor Jiji?s broad teaching experience to provide students with a solid foundation in convection heat transfer. It emphasizes fundamentals, physical phenomena, and mathematical modeling of convection. It also includes a comprehensive introduction to the important topic of convection in micro-channels. Jiji's extensive understanding of how students think and learn, what they find difficult, and which elements need to be stressed is integrated in this work. He employs an organization and methodology derived from his experience and presents the material in an easy to follow form, using graphical illustrations and examples for maximum effect. Additional highlights of note: Illustrative examples are used to demonstrate the application of principles and the construction of solutions. Solutions follow an orderly approach used in all examples. Systematic problem-solving methodology emphasizes logical thinking, assumptions, approximations, application of principles and verification of results. Significant ancillary materials are available for instructors and students. PowerPoint lectures are closely coordinated with textbook material, thus eliminating the need for note

taking by students. Chapter summaries help students review the material. Guidelines for solving each problem can be selectively given to students.

Computational Fluid Dynamics: Principles and Applications

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.

Laminar Flow Theory

Compressible Fluid Dynamics (or Gas Dynamics) has a wide range of applications in Mechanical, Aeronautical and Chemical Engineering.It plays a significant role in the design and development of compressors, turbines, missiles, rockets and

aircrafts. This comprehensive and systematically organized book gives a clear analysis of the fundamental principles of Compressible Fluid Dynamics. It discusses in rich detail such topics as isentropic, Fanno, Rayleigh, simple and generalised one-dimensional flows. Besides, it covers topics such as conservation laws for compressible flow, normal and oblique shock waves, and measurement in compressible flow. Finally, the book concludes with detailed discussions on propulsive devices. The text is amply illustrated with worked-out examples, tables and diagrams to enable the students to comprehend the subject with ease. Intended as a text for undergraduate students of Mechanical, Aeronautical and Chemical Engineering, the book would also be extremely useful for practising engineers.

Pipe Flow

This monograph is intended to provide a comprehensive description of the rela tion between kinetic theory and fluid dynamics for a time-independent behavior of a gas in a general domain. A gas in a steady (or time-independent) state in a general domain is considered, and its asymptotic behavior for small Knudsen numbers is studied on the basis of kinetic theory. Fluid-dynamic-type equations and their associated boundary conditions, together with their Knudsen-layer corrections, describing the asymptotic behavior of the gas for small Knudsen numbers are presented. In addition, various interesting physical phenomena derived from the

asymptotic theory are explained. The background of the asymptotic studies is explained in Chapter 1, accord ing to which the fluid-dynamic-type equations that describe the behavior of a gas in the continuum limit are to be studied carefully. Their detailed studies depending on physical situations are treated in the following chapters. What is striking is that the classical gas dynamic system is incomplete to describe the behavior of a gas in the continuum limit (or in the limit that the mean free path of the gas molecules vanishes). Thanks to the asymptotic theory, problems for a slightly rarefied gas can be treated with the same ease as the corresponding classical fluid-dynamic problems. In a rarefied gas, a temperature field is di rectly related to a gas flow, and there are various interesting phenomena which cannot be found in a gas in the continuum limit.

Engineering Fluid Mechanics

Mechanical Vibration: Analysis, Uncertainties, and Control simply and comprehensively addresses the fundamental principles of vibration theory, emphasizing its application in solving practical engineering problems. The authors focus on strengthening engineers' command of mathematics as a cornerstone for understanding vibration, control, and the ways in which uncertainties affect analysis. It provides a detailed exploration and explanation of the essential equations involved in modeling vibrating systems and shows readers how to employ MATLAB® as an advanced tool for analyzing specific problems. Forgoing

the extensive and in-depth analysis of randomness and control found in more specialized texts, this straightforward, easy-to-follow volume presents the format, content, and depth of description that the authors themselves would have found useful when they first learned the subject. The authors assume that the readers have a basic knowledge of dynamics, mechanics of materials, differential equations, and some knowledge of matrix algebra. Clarifying necessary mathematics, they present formulations and explanations to convey significant details. The material is organized to afford great flexibility regarding course level, content, and usefulness in self-study for practicing engineers or as a text for graduate engineering students. This work includes example problems and explanatory figures, biographies of renowned contributors, and access to a website providing supplementary resources. These include an online MATLAB primer featuring original programs that can be used to solve complex problems and test solutions.

Computational Fluid Dynamics

A brand-new edition of the classic guide on low-speed wind tunnel testing While great advances in theoretical and computational methods have been made in recent years, low-speed wind tunnel testing remains essential for obtaining the full range of data needed to guide detailed design decisions for many practical engineering problems. This long-awaited Third Edition of William H. Rae, Jr.'s

landmark reference brings together essential information on all aspects of low-speed wind tunnel design, analysis, testing, and instrumentation in one easy-to-use resource. Written by authors who are among the most respected wind tunnel engineers in the world, this edition has been updated to address current topics and applications, and includes coverage of digital electronics, new instrumentation, video and photographic methods, pressure-sensitive paint, and liquid crystal-based measurement methods. The book is organized for quick access to topics of interest, and examines basic test techniques and objectives of modeling and testing aircraft designs in low-speed wind tunnels, as well as applications to fluid motion analysis, automobiles, marine vessels, buildings, bridges, and other structures subject to wind loading. Supplemented with real-world examples throughout, Low-Speed Wind Tunnel Testing, Third Edition is an indispensable resource for aerospace engineering students and professionals, engineers and researchers in the automotive industries, wind tunnel designers, architects, and others who need to get the most from low-speed wind tunnel technology and experiments in their work.

ROMANCE ACTION & ADVENTURE MYSTERY & THRILLER BIOGRAPHIES & HISTORY CHILDREN'S YOUNG ADULT FANTASY HISTORICAL FICTION HORROR LITERARY FICTION NON-FICTION SCIENCE FICTION