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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

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

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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 readers 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

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introduction to compressible fluid flow second edition offers extensive coverage of the physical phenomena experienced in compressible flow updated and revised the second edition provides a thorough explanation of the assumptions used in the analysis of compressible flows it develops in students an understanding of what causes compressible flows to differ from incompressible flows and how they can be analyzed this book also offers a strong foundation for more advanced and focused study the book begins with discussions of the analysis of isentropic flows of normal and oblique shock waves and of expansion waves the final chapters deal with nozzle characteristics friction effects heat exchange effects a hypersonic flow high temperature gas effects and low density flows this book applies real world applications and gives greater attention to the supporting software and its practical application includes numerical results obtained using a modern commercial cfd computer fluid dynamics code to illustrate the type of results that can be obtained using such a code replaces basic language programs with matlab routines avails comprop2 software which readers can use to do compressible flow computation additional problems have been added and non numerical problems illustrating practical applications have been included a solutions manual that contains complete solutions to all of the problems in this book is available the manual incorporates the same problem solving methodology as adopted in the worked examples in this book it also provides summaries of the major equations developed in each chapter an interactive computer program also accompanies this book

the author s approach is one of continuum models of the aerodynamic flow interacting with a flexible structure whose behavior is governed by partial differential equations both linear and nonlinear models are considered although much of the book is concerned with the former while keeping the latter clearly in view a complete chapter is also devoted to nonlinear theory the author has provided new insights into the classical inviscid aerodynamics and raises novel and interesting questions on fundamental issues that have too often been neglected or forgotten in the development of the early history of the subject the author contrasts his approach with discrete models for the unsteady aerodynamic flow and the finite element model for the structure much of the aeroelasticity has been developed with applications formerly in mind because of its enormous consequences for the safety of aircraft aeroelastic instabilities such as divergence and flutter and aeroelastic responses to gusts can pose a significant hazard to the aircraft and impact its performance yet it is now recognized that there are many other physical phenomena that have similar characteristics ranging from flows around flexible tall buildings and long span bridges alternate energy sources such as electric power generation by smart structures to flows internal to the human body from the foreword for the theorist and applied mathematician who wishes an introduction to this fascinating subject as well as for the experienced aeroelastician who is open to new challenges and a fresh viewpoint this book and its author have much to offer the reader earl dowell duke university usa

this book provides an elementary introduction to one dimensional fluid flow problems involving shock waves in air the differential equations of fluid flow are approximated by finite difference equations and these in turn are numerically integrated in a stepwise manner with artificial viscosity introduced into the numerical calculations in order to deal with shocks this treatment of the subject is focused on the finite difference approach to solve the coupled differential equations of fluid flow and presents the results arising from the numerical solution using mathcad programming both plane and spherical shock waves are discussed with particular emphasis on very strong explosive shocks in air this expanded second edition features substantial new material on sound wave parameters riemann s method for numerical integration of the equations of motion approximate analytical expressions for weak shock waves short duration piston motion numerical results for shock wave interactions and new appendices on the piston withdrawal problem and numerical results for a closed shock tube this text will appeal to students researchers and professionals in shock wave research and related fields students in particular will appreciate the benefits of numerical

methods in fluid mechanics and the level of presentation

with new chapters homework problems case studies figures and examples ballistics theory and design of guns and ammunition third edition encourages superior design and innovative applications in the field of ballistics it examines the analytical and computational tools for predicting a weapon s behavior in terms of pressure stress and velocity demonstrating their applications in ammunition and weapons design new coverage in the third edition includes gas powered guns and naval ordinance with its thorough coverage of interior exterior and terminal ballistics this new edition continues to be the standard resource for those studying the technology of guns and ammunition

pipe flow provides detailed coverage of hydraulic analysis of piping systems revised and updated throughout pipe flow a practical and comprehensive guide provides the information required to design and analyze piping systems for distribution systems power plants and other industrial operations divided into three parts this authoritative resource describes the methodology for solving pipe flow problems presents loss coefficient data for a wide range of piping components and examines pressure drop cavitation flow induced vibration and other flow phenomena that affect the performance of piping systems throughout the book sample problems and worked solutions illustrate the application of core concepts and techniques the second edition features revised and expanded information throughout including an entirely new chapter that presents a mixing section flow model for accurately predicting jet pump performance this edition includes additional examples supplemental problems and a new appendix of the speed of sound in water with clear explanations expert guidance and precise hydraulic computations this classic reference text remains required reading for anyone working to increase the quality and efficiency of modern piping systems discusses the fundamental physical properties of fluids and the nature of fluid flow demonstrates the accurate prediction and management of pressure loss for a variety of piping components and piping systems reviews theoretical research on fluid flow in piping and its components presents important loss coefficient data with straightforward tables diagrams and equations includes full references further reading sections and numerous example problems with solution pipe flow a practical and comprehensive guide second edition is an excellent textbook for engineering students and an invaluable reference for professional engineers engaged in the design operation and troubleshooting of piping systems

aimed at undergraduates and graduate engineering students this book covers a

broad spectrum of fluid mechanics for beginners and more specialized topics like supersonic flow for advanced students

addressing the optimization and design of an axial flow turbine this volume details a method for selecting the best turbine design taking into account a range of parameters including size stress and number of stages topics covered include basic turbine design stage calculations thermodynamics and blade shapes and a design example

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