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new edition now covers shock wave analysis an in depth presentation of analytical methods and physical foundations analytical fluid dynamics third edition breaks down the how and why of fluid dynamics while continuing to cover the most fundamental topics in fluid mechanics this latest work emphasizes advanced analytical approaches to aid in the analytical process and corresponding physical interpretation it also addresses the need for a more flexible mathematical language utilizing vector and tensor analysis and transformation theory to cover the growing complexity of fluid dynamics revised and updated the text centers on shock wave structure shock wave derivatives and shock produced vorticity supersonic diffusers thrust and lift from an asymmetric nozzle and outlines operator methods and laminar boundary layer theory in addition the discussion introduces pertinent assumptions reasons for studying a particular topic background discussion illustrative examples and numerous end of chapter problems utilizing a wide variety of topics on inviscid and viscous fluid dynamics the author covers material that includes viscous dissipation the second law of thermodynamics calorically imperfect gas flows aerodynamic sweep shock wave interference unsteady one dimensional flow internal ballistics force and momentum balance the substitution principle rarefaction shock waves a comprehensive treatment of flow property derivatives just downstream of an unsteady three dimensional shock shock generated vorticity triple points an extended version of the navier stokes equations shock free supersonic diffusers lift and thrust from an asymmetric nozzle analytical fluid dynamics third edition outlines the basics of analytical fluid mechanics while emphasizing analytical approaches to fluid dynamics covering the material in depth this book provides an authoritative interpretation of formulations and procedures in analytical fluid dynamics and offers analytical solutions to fluid dynamic problems

as computational fluid dynamics cfd and computational heat transfer cht evolve and become increasingly important in standard engineering design and analysis practice users require a solid understanding of mechanics and numerical methods to make optimal use of available software the finite element method in heat transfer and fluid dynamics third edition

illustrates what a user must know to ensure the optimal application of computational procedures particularly the finite element method fem to important problems associated with heat conduction incompressible viscous flows and convection heat transfer this book follows the tradition of the bestselling previous editions noted for their concise explanation and powerful presentation of useful methodology tailored for use in simulating cfd and cht the authors update research developments while retaining the previous editions key material and popular style in regard to text organization equation numbering references and symbols this updated third edition features new or extended coverage of coupled problems and parallel processing mathematical preliminaries and low speed compressible flows mode superposition methods and a more detailed account of radiation solution methods variational multi scale methods vmm and least squares finite element models lsfem application of the finite element method to non isothermal flows formulation of low speed compressible flows with its presentation of realistic applied examples of fem in thermal and fluid design analysis this proven masterwork is an invaluable tool for mastering basic methodology competently using existing simulation software and developing simpler special purpose computer codes it remains one of the very best resources for understanding numerical methods used in the study of fluid mechanics and heat transfer phenomena

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

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