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A. K. Oppenheim, 2014-05-04 **Gasdynamics of Explosions and Reactive Systems** A. K. Oppenheim, 2013-10-22 Gas Dynamics of Explosions and Reactive Systems documents the proceedings of the 6th Colloquium held at the Royal Institute of Technology in Stockholm Sweden 22-26 August 1977 The meeting was held under the auspices of the Royal Swedish Academy of Sciences and the International Academy of Astronautics The scientific program included over one hundred papers The contributions in this volume are organized into four parts Part I contains papers on gaseous detonations It covers topics such as theoretical model of a detonation cell spherical detonations in hydrocarbon air mixtures and shock wave propagation in tubes filled with water foams Part II presents studies on explosions such as the detonation of hydrogen azide and propagation of a laser supported detonation wave Part III examines condensed phase detonations It includes papers on the mechanism of the divergent and convergent dark waves originating at the charge boundary in detonating liquid homogeneous explosives with unstable detonation front and initiation studies in sensitized nitromethane Part IV presents discussions on turbulent detonations covering topics such as the computational aspects of turbulent combustion and problems and techniques in turbulent reactive systems **Fundamentals of Gas Dynamics** Howard W.

Emmons, 2015-12-08 Volume II of the High Speed Aerodynamics and Jet Propulsion series The series which stress the more fundamental aspects of the various phenomena that make up the broad field of aeronautical science The aerodynamicist and gas dynamicist will find both the classical and the important new concepts of gas dynamics presented in an informative and stimulating manner Specialists in the study of gas dynamics have contributed Sections as follows H S Tsien The Equations of Gas Dynamics L Crocco One Dimensional Treatment of Steady Gas Dynamics A Kantrowitz One Dimensional Treatment of Nonsteady Gas Dynamics W Hayes The Basic Theory of Gasdynamic Discontinuities H Polachek and R J Seeger Shock Wave Interactions H G Stever Condensation Phenomena in High Speed Flows T H Von Karman H W Emmons G I Taylor and R S Tankin Gas Dynamics of Combustion and Detonation S Schaaf and P Chambre Flow of Rarefied Gases Originally published in

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Applied Mechanics Reviews ,1963 The Shock and Vibration Digest ,1982

Gas Dynamics I. I. Koptev,1992 A Celebration of Mathematical Modeling Dan Czamanski,Marcus J. Grote,George Papanicolaou,2013-03-09 This volume celebrates the eightieth birthday of Joseph B. Keller The authors who contributed to this volume belong to what can be called the Keller school of applied mathematics They are former students postdoctoral fellows and visiting scientists who have collaborated with Joe some of them still do during his long career They all look at Joe as their ultimate role model Joe Keller's distinguished career has been divided between the Courant Institute of Mathematical Sciences at New York University where he received all his degrees his PhD adviser being the great R Courant himself and served as a professor for 30 years and Stanford University where he has been since 1978 The appended photos highlight some scenes from the old days Those who know Joe Keller's work have been always amazed by its diversity and breadth It is considered a well known truth that there is not a single important area in applied mathematics or physics which Keller did not contribute to This can be appreciated for example by glancing through his list of publication included in this volume Appropriately the papers in this book written with Joe's inspiration cover a variety of application areas together they span the broad subject of mathematical modeling The models discussed in the book describe the behavior of various systems such as those related to nance waves croorganisms shocks DNA ames contact optics uids bubbles and jets Joe's activity includes many more areas which unfortunately are not represented here

Frontiers of Shock Wave Research Kazuyoshi Takayama,Ozer Igra,2022-06-07 The book contains 12 chapters written by well known shock wave researchers from seven different countries Each researcher provides a brief description of his main research interests and results thereby providing the readers with an excellent view of shock wave research conducted in the past fifty years It also provides hints as to what still needs further investigation It will be an excellent guide for young researchers entering the field of shock wave phenomena Among the described investigations are the following topics Blast wave interaction with a body when the body is in the area of interference of two blast waves moving in different directions equation of state for water based on the shock Hugoniot data Mach waves occurring over a backward facing edge in supersonic flow shock waves in dusty gas shock wave interaction with various bodies three shock interactions

Fundamentals of Premixed Turbulent Combustion Andrei Lipatnikov,2012-10-24 Lean burning of premixed gases is considered to be a promising combustion technology for future clean and highly efficient gas turbine combustors Yet researchers face several challenges in dealing with premixed turbulent combustion from its nonlinear multiscale nature and the impact of local phenomena to the multitude of competing models

Filling *Dynamics of Combustion Systems* A. K. Oppenheim, 2006-12-18 The Dynamics of Combustion Systems are presented in three parts in this book providing a step towards the automatic control of explosions The exothermic character of combustion systems their fluid dynamic features and explosive nature are covered by this work which also provides a technical monograph for readers with some background in combustion technology Suitable for graduate students and researchers in academia and industry **Combustion Theory** Forman A. Williams, 2018-03-05 Combustion Theory delves deeper into the science of combustion than most other texts and gives insight into combustions from a molecular and a continuum point of view The book presents derivations of the basic equations of combustion theory and contains appendices on the background of subjects of thermodynamics chemical kinetics fluid dynamics and transport processes Diffusion flames reactions in flows with negligible transport and the theory of pre mixed flames are treated as are detonation phenomena the combustion of solid propellants and ignition extinction and flammability phenomena **NASA Technical Note**, 1970

Interstellar Gas Dynamics S.A. Kaplan, 2013-10-22 International Series of Monographs in Natural Philosophy Volume 3 Interstellar Gas Dynamics focuses on the progress on research on the motion of gases in interstellar space and stellar atmospheres including issues on cosmical gas dynamics and magnetohydrodynamics The publication first offers information on the distribution motion and physical state of the interstellar gas Topics include composition of the interstellar medium cloud structure of the interstellar gas spiral structure and distribution of the interstellar gas ionization of the interstellar hydrogen temperature of the interstellar gas interaction between the interstellar gas and magnetic fields and relativistic particles in an interstellar space The book also takes a look at the discontinuities in the motion of the interstellar gas as well as the fundamental theory of shock waves ionization fronts shock waves with light emission and hydromagnetic discontinuities The manuscript examines the equations of motion of the interstellar gas including hydromagnetic equations of motion one dimensional motions and similarity solutions motion of ionization fronts and interstellar turbulence The publication is a dependable reference for readers interested in interstellar gas dynamics **Handbook of Shock Waves, Three Volume Set** Gabi Ben-Dor, Ozer Igra, Tov Elperin, 2000-10-18 The Handbook of Shock Waves contains a comprehensive structured coverage of research topics related to shock wave phenomena including shock waves in gases liquids solids and space Shock waves represent an extremely important physical phenomena which appears to be of special practical importance in three major fields compressible flow aerodynamics materials science and astrophysics Shock waves comprise a phenomenon that occurs when pressure builds to force a reaction i.e. sonic boom that occurs when a jet breaks the speed of sound This Handbook contains experimental theoretical and numerical results which never before appeared under one cover the first handbook of its kind The Handbook of Shock Waves is intended for researchers and engineers active in shock wave related fields Additionally R D establishments applied science research laboratories and scientific and engineering libraries both in universities and government institutions As well as undergraduate and graduate students in

fluid mechanics gas dynamics and physics Key Features Ben Dor is known as one of the founders of the field of shock waves Covers a broad spectrum of shock wave research topics Provides a comprehensive description of various shock wave related subjects First handbook ever to include under one separate cover experimental theoretical and numerical results

Acoustics Allan D. Pierce, 2019-06-22 This corrected version of the landmark 1981 textbook introduces the physical principles and theoretical basis of acoustics with deep mathematical rigor concentrating on concepts and points of view that have proven useful in applications such as noise control underwater sound architectural acoustics audio engineering nondestructive testing remote sensing and medical ultrasonics Since its publication this text has been used as part of numerous acoustics related courses across the world and continues to be used widely today During its writing the book was fine tuned according to insights gleaned from a broad range of classroom settings Its careful design supports students in their pursuit of a firm foundation while allowing flexibility in course structure The book can easily be used in single term or full year graduate courses and includes problems and answers This rigorous and essential text is a must have for any practicing or aspiring acoustician

Fluid- and Gasdynamics G.H. Schnerr, R. Bohning, K. Bühler, W. Frank, 2013-03-08 This volume offers a wide range of theoretical numerical and experimental research papers on fluid dynamics The major fields of research fundamentals of fluid mechanics as well as their applications are treated stability phenomena convective flow thermal and hydrodynamic systems transition turbulence and separation boundary layer turbulent combustion rarefied gasdynamics near wall and off wall flow fields energy dissipation transonic flow homogeneous condensation shock waves effects at Mach number unity hypersonic flow flow over spheres aerothermodynamics relaxation fluid machinery axial fans compressor cascades fluid couplings computational fluid dynamics passive shock control zonal computation cylinder flow flow over wings miscellaneous problems

Hypersonic Inviscid Flow Wallace D. Hayes, Ronald F. Probst, 2012-07-13 Unified self contained view of nonequilibrium effects body geometries and similitudes available in hypersonic flow and thin shock layer appropriate for graduate level courses in hypersonic flow theory 1966 edition Hypersonic Flow Theory Wallace Hayes, 2012-12-02 Hypersonic Flow Theory presents the fundamentals of fluid mechanics focusing on the hypersonic flow theory and approaches in theoretical aerodynamics This book discusses the assumptions underlying hypersonic flow theory unified supersonic hypersonic similitude two dimensional and axisymmetric bodies and circular cylinder The constant streamtube area approximation streamtube continuity methods and tangent wedge and tangent cone are also deliberated This text likewise covers the similar laminar boundary layer solutions bluntness induced interactions on slender bodies and free molecule transfer theory The dynamics of hypersonic flight or hypersonic wing theory magnetohydrodynamic theory or any developments involving treatment of the Boltzmann equation are not included This publication is intended for hypersonic aerodynamicists students and researchers conducting work on the hypersonic flow phenomena

The Two-Dimensional Riemann Problem in Gas Dynamics Jiequan Li, Tong Zhang, Shuli Yang, 2022-02-13 The Riemann problem is the most

fundamental problem in the entire field of non linear hyperbolic conservation laws Since first posed and solved in 1860 great progress has been achieved in the one dimensional case However the two dimensional case is substantially different Although research interest in it has lasted more than a century it has yielded almost no analytical demonstration It remains a great challenge for mathematicians This volume presents work on the two dimensional Riemann problem carried out over the last 20 years by a Chinese group The authors explore four models scalar conservation laws compressible Euler equations zero pressure gas dynamics and pressure gradient equations They use the method of generalized characteristic analysis plus numerical experiments to demonstrate the elementary field interaction patterns of shocks rarefaction waves and slip lines They also discover a most interesting feature for zero pressure gas dynamics a new kind of elementary wave appearing in the interaction of slip lines a weighted Dirac delta shock of the density function The Two Dimensional Riemann Problem in Gas Dynamics establishes the rigorous mathematical theory of delta shocks and Mach reflection like patterns for zero pressure gas dynamics clarifies the boundaries of interaction of elementary waves demonstrates the interesting spatial interaction of slip lines and proposes a series of open problems With applications ranging from engineering to astrophysics and as the first book to examine the two dimensional Riemann problem this volume will prove fascinating to mathematicians and hold great interest for physicists and engineers

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