

Rarefied Gas Dynamics

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Rarefied Gas Dynamics 11th Symposium 2 Vols

Jay M. Solomon



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Index to Conferences Relating to Nuclear Science Willie E. Clark, Doris H. McGinnis, 1968 The International Handbook of Space Technology Malcolm Macdonald, Viorel Badescu, 2014-07-08 This comprehensive handbook provides an overview of space technology and a holistic understanding of the system of systems that is a modern spacecraft With a foreword by Elon Musk CEO and CTO of SpaceX and contributions from globally leading agency experts from NASA ESA JAXA and CNES as well as European and North American academics and industrialists this handbook as well as giving an interdisciplinary overview offers through individual self contained chapters more detailed understanding of specific fields ranging through Launch systems structures power thermal communications propulsion and software to entry descent and landing ground segment robotics and data systems to technology management legal and regulatory issues and project management This handbook is an equally invaluable asset to those on a career path towards the space industry as it is to those already within the industry **Nuclear Science Abstracts** ,1975 *Applied Mechanics Reviews* ,1970 *Energy Research Abstracts* ,1990 **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office, 1965 Includes Part 1 Number 2 Books and Pamphlets Including Serials and Contributions to Periodicals July December From Particle Systems to Partial Differential Equations II Patrícia Gonçalves, Ana Jacinta Soares, 2015-04-04 This book focuses on mathematical problems concerning different applications in physics engineering chemistry and biology It covers topics ranging from interacting particle systems to partial differential equations PDEs statistical mechanics and dynamical systems The purpose of the second meeting on Particle Systems and PDEs was to bring together renowned researchers working actively in the respective fields to discuss their topics of expertise and to present recent scientific results in both areas Further the meeting was intended to present the subject of interacting particle systems its roots in and impacts on the field of physics and its relation with PDEs to a vast and varied public including young researchers The book also includes the notes from two mini courses presented at the conference allowing readers who are less familiar with these areas of mathematics to more easily approach them The contributions will be of interest to mathematicians theoretical physicists and other researchers interested in interacting particle systems partial differential equations statistical mechanics stochastic processes kinetic theory dynamical systems and mathematical modeling aspects *ABSTRACTS- 8TH INTERNATIONAL SYMPOSIUM ON RAREFIED GAS DYNAMICS- 2 VOLS.* , **Advances in Chemical Physics: Special Volume in Memory of Ilya Prigogine, Volume 135** Stuart A. Rice, 2007-04-10 This series provides the chemical physics field with a forum for critical authoritative evaluations of advances in every area of the discipline This stand alone special topics volume reports recent advances in electron transfer research with significant up to date chapters by internationally recognized researchers **AIAA 87-1540 - AIAA 87-1599** ,1987 **General Catalogue of Printed Books** British Museum. Department of Printed Books, 1969 **18th Space Simulation Conference** ,1994 **Direct Methods for Solving the Boltzmann**

Equation and Study of Nonequilibrium Flows V.V. Aristov, 2012-12-06 This book is concerned with the methods of solving the nonlinear Boltzmann equation and of investigating its possibilities for describing some aerodynamic and physical problems This monograph is a sequel to the book Numerical direct solutions of the kinetic Boltzmann equation in Russian which was written with F G Tcheremissine and published by the Computing Center of the Russian Academy of Sciences some years ago The main purposes of these two books are almost similar namely the study of nonequilibrium gas flows on the basis of direct integration of the kinetic equations Nevertheless there are some new aspects in the way this topic is treated in the present monograph In particular attention is paid to the advantages of the Boltzmann equation as a tool for considering nonequilibrium nonlinear processes New fields of application of the Boltzmann equation are also described Solutions of some problems are obtained with higher accuracy Numerical procedures such as parallel computing are investigated for the first time The structure and the contents of the present book have some common features with the monograph mentioned above although there are new issues concerning the mathematical apparatus developed so that the Boltzmann equation can be applied for new physical problems Because of this some chapters have been rewritten and checked again and some new chapters have been added Viscous Flow Past a Rotating Translating Blade with Arbitrary Velocity Suction and Slip (U) K. J. Touryan, 1963 **SC-RR**, 1963 **On the Hypersonic Sharp Leading Edge Problem for Bodies Other Than Flat Plates** Jay M. Solomon, 1965 The flow near the tip of pointed nosed bodies in hypersonic flight is considered In particular the region where continuum concepts are applicable but where boundary layer theory is no longer valid is studied using the model proposed by Oguchi ref 1 for the flat plate problem Both two dimensional and axially symmetric bodies are considered Solutions are obtained in the form of expansions valid near the nose tip The surface pressure is found to approach a finite value as the tip is approached numerical results for this limit value are obtained for various wall to total temperature ratios and tip semi vertex angles **Topics in Current Aerosol Research** G. M. Hidy, J. R. Brock, 2013-10-22 Topics in Current Aerosol Research deals with the fundamental aspects of aerosol science with emphasis on experiment and theory describing highly dispersed aerosols HDAs as well as the dynamics of charged suspensions Topics covered range from the basic properties of HDAs to their formation and methods of generation sources of electric charges interactions between fluid and aerosol particles and one dimensional motion of charged cloud of particles This volume is comprised of 13 chapters and begins with an introduction to the basic properties of HDAs followed by a discussion on the formation of condensation HDAs Some of the methods of generation of HDAs are considered including atomization physical condensation of vapor and chemical reactions in the gas phase are considered A transport model for electrically charged aerosols is described Subsequent chapters explore methods of investigation of HDAs in suspended state and based on particle precipitation transfer processes in HDAs including mass transfer charge transfer momentum transfer and heat transfer and charging of particulate matter by collection This book will be a useful resource for practicing scientists and graduate students in such

widely diverse fields as physics physical chemistry meteorology geophysics astronomy chemical engineering mechanical engineering aerospace engineering environmental sciences and medicine *The Publishers' Trade List Annual* ,1985

Hyperbolic Problems: Theory, Numerics, Applications - Proceedings Of The Fifth International Conference James Glimm,M J Graham,J W Grove,Bradley J Plohr,1996-03-14 The intellectual center of this proceedings volume is the subject of conservation laws Conservation laws are the most basic model of many continuum processes and for this reason they govern the motion of fluids solids and plasma They are basic to the understanding of more complex modeling issues such as multiphase flow chemically reacting flow and non equilibrium thermodynamics Equations of this type also arise in novel and unexpected areas such as the pattern recognition and image processing problem of edge enhancement and detection The articles in this volume address the entire range of the study of conservation laws including the fundamental mathematical theory familiar and novel applications and the numerical problem of finding effective computational algorithms for the solution of these problems **NBS Special Publication** ,1968

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