

RAREFIED GAS DYNAMICS

23rd International Symposium

Whistler, British Columbia, Canada 2002



AMERICAN
INSTITUTE
OF PHYSICS

EDITORS
Andrew D. Ketsdever
E. R. Muniz

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Rarefied Gas Dynamics 23rd International Symposium

KJ Lindholm-Leary



Rarefied Gas Dynamics 23rd International Symposium:

Rarefied Gas Dynamics Andrew D. Ketsdever, E.P. Munz, 2003-05-19 The papers in these proceedings were peer reviewed The RGD Symposia are highly interdisciplinary and encompass all aspects of rarefaction and non equilibrium phenomena in gases Rarefied flow phenomena include the mechanics and physics of low density gases and the analysis of flows which take place on a spatial scale comparable to the mean free path of a gas Topics covered include Kinetic theory and transport theory numerical methods including direct simulation Monte Carlo and molecular dynamics gas surface phenomena nano and microscale flows molecular beams atom and molecular optics clusters and aerosols external flows including space and vacuum technologies plume flows hypersonic flows molecular collision dynamics relaxation processes ionized gas flows physics of the space environment plasma processing experimental techniques diagnostics including laser induced fluorescence and electron beams applications With the increase in space activities and microfabrication capabilities new themes have emerged including rarefied hypersonic flows non equilibrium gases plasma processing nano and micro scale flows at relatively high pressures along with parallel and hybrid computational developments Because the RGD Symposia are recognized as the principle forum for the presentation of recent advances in this field it is a must for engineers and scientists in a variety of specialties Macroscopic Transport Equations for Rarefied Gas Flows Henning

Struchtrup, 2006-06-15 The well known transport laws of Navier Stokes and Fourier fail for the simulation of processes on lengthscales in the order of the mean free path of a particle that is when the Knudsen number is not small enough Thus the proper simulation of flows in rarefied gases requires a more detailed description This book discusses classical and modern methods to derive macroscopic transport equations for rarefied gases from the Boltzmann equation for small and moderate Knudsen numbers i e at and above the Navier Stokes Fourier level The main methods discussed are the classical Chapman Enskog and Grad approaches as well as the new order of magnitude method which avoids the shortcomings of the classical methods but retains their benefits The relations between the various methods are carefully examined and the resulting equations are compared and tested for a variety of standard problems The book develops the topic starting from the basic description of an ideal gas over the derivation of the Boltzmann equation towards the various methods for deriving macroscopic transport equations and the test problems which include stability of the equations shock waves and Couette flow

Future Energy Conferences and Symposia ,1991 *Energy Meetings* United States. Department of Energy. Technical Information Center, 1986 A listing of forthcoming meetings conventions etc **Nuclear Science Abstracts** ,1975

Government-wide Index to Federal Research & Development Reports ,1966 **International Aerospace Abstracts** ,1994 **Stochastic Numerics for the Boltzmann Equation** Sergej Rjasanow, Wolfgang Wagner, 2005-11-04 Stochastic numerical methods play an important role in large scale computations in the applied sciences The first goal of this book is to give a mathematical description of classical direct simulation Monte Carlo DSMC procedures for rarefied gases

using the theory of Markov processes as a unifying framework The second goal is a systematic treatment of an extension of DSMC called stochastic weighted particle method This method includes several new features which are introduced for the purpose of variance reduction rare event simulation Rigorous convergence results as well as detailed numerical studies are presented **ERDA Energy Research Abstracts** United States. Energy Research and Development Administration, 1977

NASA Technical Memorandum ,1963 **04-2569 - 04-2733** ,2004 **Index to Conferences Relating to Nuclear Science** Willie E. Clark, Doris H. McGinnis, 1968 **High Temperature Phenomena in Shock Waves** Raymond Brun, 2012-01-24 The high temperatures generated in gases by shock waves give rise to physical and chemical phenomena such as molecular vibrational excitation dissociation ionization chemical reactions and inherently related radiation In continuum regime these processes start from the wave front so that generally the gaseous media behind shock waves may be in a thermodynamic and chemical non equilibrium state This book presents the state of knowledge of these phenomena Thus the thermodynamic properties of high temperature gases including the plasma state are described as well as the kinetics of the various chemical phenomena cited above Numerous results of measurement and computation of vibrational relaxation times dissociation and reaction rate constants are given and various ionization and radiative mechanisms and processes are presented The coupling between these different phenomena is taken into account as well as their interaction with the flow field Particular points such as the case of rarefied flows and the inside of the shock wave itself are also examined Examples of specific non equilibrium flows are given generally corresponding to those encountered during spatial missions or in shock tube experiments **Proceedings of the International Symposium on Two-Phase Systems** G. Hetsroni, S. Sideman, J. P. Hartnett, 2017-05-04 *Proceedings of the International Symposium on Two Phase Systems* **Nuclear Science Abstracts** ,1967 **Energy Research Abstracts** ,1990 *Summaries of Projects Completed* National Science Foundation (U.S.),

Shock Waves Zonglin Jiang, 2010-05-30 The 24th International Symposium on Shock Waves ISSW24 was held at the Beijing Friendship Hotel during July 11 16 2004 in Beijing It was a great pleasure for the Local Organizing Committee to organize the ISSW in China for the first time because forty seven years have passed since the First Shock Tube Symposium was held in 1957 at Albuquerque The ISSW24 had to be postponed for one year because of the SARS outbreak in Beijing shortly before the Symposium was scheduled to be held in 2003 but it has achieved success due to the continuous support and kind understanding from all the delegates It is very heart warming to have had such an experience and I am very happy to have served as chairman for the Symposium I would like to thank all for the contributions and help that they have given us over the past three years without which we would not have had the Symposium A total of 460 abstracts were submitted to the ISSW24 Each of the abstracts was evaluated by three members of the Scientific Review Committee and the decision on acceptance was made based on the reviewers reports 195 oral papers including 9 plenary lectures were accepted to be presented in three parallel sessions and 135 poster papers in three dedicated poster sessions Topics discussed in these

papers cover all aspects of shock wave research
Energy Update ,1981

43rd AIAA Aerospace Sciences Meeting & Exhibit ,2005

Fusion

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