

RAREFIED GAS DYNAMICS

23rd International Symposium

Whistler, British Columbia, Canada 2002



AMERICAN
INSTITUTE
OF PHYSICS

EDITORS
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AIP CONFERENCE PROCEEDINGS ■ 663

Rarefied Gas Dynamics 23rd International Symposium

Sabine Zange



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 Energy Meetings United States. Department of Energy. Technical Information Center, 1986 A listing of forthcoming meetings conventions etc Index to Conferences Relating to Nuclear Science Willie E. Clark, Doris H. McGinnis, 1968 Future Energy Conferences and Symposia, 1991 **Conference Proceedings in the IAEA Library** International Atomic Energy Agency, 1972 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 **Rarefied Gas Dynamics** Ching Shen, 1997 **Microchannels and Minichannels (ICMM2004)** Satish G. Kandlikar, G. P. Celata, 2004 *Shock Wave-Boundary-Layer Interactions* Holger Babinsky, John K. Harvey, 2011-09-12 Shock wave boundary layer interaction SBLI is a fundamental phenomenon in gas dynamics that is observed in many practical situations ranging from transonic aircraft wings to hypersonic vehicles and engines SBLIs have the potential to pose serious problems in a flowfield hence they often prove to be a critical or even design limiting issue for many aerospace applications This is the first book devoted solely to a comprehensive state of the art explanation of this phenomenon It includes a description of the basic fluid mechanics of SBLIs plus contributions from leading international experts who share their insight into their physics and the impact they have in practical flow situations

This book is for practitioners and graduate students in aerodynamics who wish to familiarize themselves with all aspects of SBLI flows. It is a valuable resource for specialists because it compiles experimental, computational, and theoretical knowledge in one place. 43rd AIAA Aerospace Sciences Meeting & Exhibit, 2005 *International Aerospace Abstracts*, 1994

04-2569 - 04-2733, 2004 □□□□□□□□, 1976 **38th AIAA Thermophysics Conference: 05-4679 - 05-4956**, 2005

4th AIAA Theoretical Fluid Mechanics Meeting: 05-5053 - 05-5386, 2005 04-2370 - 04-2473, 2004 Laser und

Optoelektronik, 1990 Rarefied Gas Dynamics, 1960 **AIAA Journal** American Institute of Aeronautics and

Astronautics, 2005 **39th AIAA/ASME/SAE/ASEE Joint Propulsion Conference & Exhibit July 20-23, 2003,**

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