

Nonequilibrium Processes in Partially Ionized Gases

Edited by
Mario Capitelli and
J. Norman Bardsley

NATO ASI Series

Nonequilibrium Processes In Partially Ionized Gases

Anthony S. Fauci

Nonequilibrium Processes In Partially Ionized Gases:

Nonequilibrium Processes in Partially Ionized Gases M. Capitelli, J. Norman Bardsley, 2012-12-06 The NATO Advanced Research Institute on Nonequilibrium Processes in Partially Ionized Gases was held at Acquafredda di Maratea during 4 17 June 1989 The Institute considered the interconnections between scattering and transport theories and modeling of nonequilibrium systems generated by electrical discharges emphasizing the importance of microscopic processes in affecting the bulk properties of plasmas The book tries to reproduce these lines In particular several contributions describe scattering cross sections involving electrons interacting with atoms and molecules in both ground and excited states from theoretical and experimental point of view of energy transfer processes as well as reactive ones involving excited molecules colliding with atoms and molecules as well as with metallic surfaces Other contributions deal with the basis of transport theories Boltzmann and Monte Carlo methods for describing the bulk properties of non equilibrium plasmas as well as with the modeling of complicated systems emphasizing in particular the strong coupling between the Boltzmann equation and excited state kinetics Finally the book contains several contributions describing applications in different fields such as Excimer Lasers Negative Ion Production RF Discharges Plasma Chemistry Atmospheric Processes and Physics of Lamps The Organizing Committee gratefully acknowledges the generous financial support provided by the NATO Science Committee as well as by Azienda Autonoma di Soggiorno e Turismo of Maratea by University of Bari by C N R Centro di Studio per la Chimica dei Plasmi and Comitato per la Chimica by ENEA by Lawrence Livermore Laboratory and by US Army Research Nonequilibrium Effects in Ion and Electron Transport Jean W. Gallagher, 2012-12-06 This volume presents the Office contributions of the participants in the Sixth International Swarm Seminar held August 2 5 1989 at the Webb Institute in Glen Cove New York The Swarm Seminars are traditionally held as relatively small satellite conferences of the International Conference on the Physics of Electronic and Atomic Collisions ICPEAC which occurs every two years The 1989 ICPEAC took place in New York City prior to the Swarm Seminar The focus of the Swarm Seminars has been on basic research relevant to understanding the transport of charged particles mainly electrons and ions in weakly ionized gases This is a field that tends to bridge the gap between studies of fundamental binary atomic and molecular collision processes and studies of electrical breakdown or discharge phenomena in gases Topics included in the 1989 seminar ranged the gamut from direct determinations of charged particle collision cross sections to use of cross sections and swarm parameters to model the behavior of electrical gas discharges Although the range of subjects covered was in many respects similar to that of previous seminars there was an emphasis on certain selected themes that tended to give this seminar a distinctly different flavor There was for example considerable discussion on the meaning of equilibrium and the conditions under which nonequilibrium effects become important in the transport of electrons through a gas **Atomic and Molecular Processes in Fusion Edge Plasmas** R.K. Janev, 2013-06-29 This well illustrated resource provides vital cross section information for the atomic

and molecular collision processes taking place in the boundary region of magnetically confined fusion plasmas and in other laboratory and astrophysical low temperature plasmas The expertly assessed information in this noteworthy volume includes the most recent experimental and theoretical results presented in a convenient format Coverage includes the processes of electron impact excitation and ionization of plasma edge atoms electron ion recombination dissociative collision processes involving electrons and much more Non-Equilibrium Air Plasmas at Atmospheric Pressure K.H. Becker, U. Kogelschatz, K.H. Schoenbach, R.J. Barker, 2004-11-29 Atmospheric pressure plasmas continue to attract considerable research interest due to their diverse applications including high power lasers opening switches novel plasma processing applications and sputtering EM absorbers and reflectors remediation of gaseous pollutants excimer lamps and other noncoherent light sources Non Equilibrium Air Plasmas at Atmospheric Pressure reviews recent advances and applications in the generation and maintenance of atmospheric pressure plasmas With contributions from leading international researchers the coverage includes advances in atmospheric pressure plasma source development diagnostics and characterization air plasma chemistry modeling and computational techniques and an assessment of the status and prospects of atmospheric pressure air plasma applications. The extensive applications sections make this book attractive for practitioners in many fields where technologies based on atmospheric pressure air plasmas are emerging Plasma Technology M. Capitelli, C. Gorse, 2012-12-06 The present book contains the proceedings of the workshop Plasma Technology and Applications which was held at 11 Ciocco Lucca Italy during 5 6 July 1991 The workshop was organized just before ICPIG XX to emphasize the role of plasma physics and plasma chemistry in different fields of technology Topics cover different applications such as lamps plasma treatment of materials etching deposition nitriding plasma sources microwave excitation negative ion sources and plasma destruction of pollutants Several chapters deal with basic concepts in plasma physics non equilibrium plasma modeling and plasma diagnostics as well as with laser interaction with solid targets The authors gratefully acknowledge the financial support provided by university of Bari Italy and by CNR Centro di Studio per la Chimica dei Plasmi Istituto di Fisica Atomica e Molecolare IFAM and Progetto Finalizzato Materiali Speciali per Tecnologie Avanzate as well as the sponsorship of ENEA M Capitelli C Gorse v CONTENTS Plasmas in nature laboratory and technology 1 A M Ignatov and A A Rukhadze Laser diagnostics of plasmas 11 L Pyatnitsky Probe diagnostics of plasmas 27 G Dilecce Theory properties and applications of non equilibrium plasmas created by external energy sources 45 E Son Non Equilibrium plasma modeling 59 M Capitel1i R Celiberto G Capriati C Gorse and S Longo Gas discharge lamps 81 M Koedam Plasma etching processes and diagnostics 93 R d Agostino and F Fracassi Plasma deposition processes and diagnostics 109 A **Microwave Discharges** Carlos M. Ferreira, Michel Moisan, 2013-11-21 Proceedings of a NATO ARW held in Vimeiro Portugal May 11 15 1992 Advances in **Atomic, Molecular, and Optical Physics**, 1994-07-26 The latest volume in the highly acclaimed series addresses atomic collisions assessing the status of the current knowledge identifying deficiencies and exploring ways to improve the quality of

cross section data Eleven articles written by foremost experts focus on cross section determination by experiment or theory on needs in selected applications and on efforts toward the compilation and dissemination of data This is the first volume edited under the additional direction of Herbert Walther Presents absolute cross sections for atomic collisions Uses benchmark measurements and benchmark calculations Discusses needs for cross section data in applications Contains a quide to data resources bibliographies and compendia Non-equilibrium Processing of Materials C. Survanarayana, 1999-07-22 The rapid technological developments during the later half of the 20th century have demanded materials that are stronger capable of use at much higher temperatures more corrosion resistant and much less expensive than those currently used These demands become even more significant on the threshold of the new century and the millennium Significant improvements in properties can only be achieved by processing the materials under far from equilibrium or non equilibrium conditions Several new processing technologies have been developed during the past few decades including rapid solidification spray forming mechanical alloying ion mixing vapor deposition laser processing and plasma processing Remarkable advances have been made in recent years in the science and technology of these processes used to synthesize characterize and apply these materials processed under non equilibrium conditions Some of these techniques have evolved from laboratory curiosity to commercial scale manufacturing in just a few years In other cases industrial necessity prompted development of the technology and the science followed later The chapters in this book have been written by people who are world recognized experts in their respective fields Each chapter describes the principles processing techniques special features of the materials produced and their applications An extensive list of references is provided at the end of each chapter that will facilitate location of additional information on specific aspects of any technique

Molecular Physics and Hypersonic Flows M. Capitelli,2012-12-06 Molecular Physics and Hypersonic Flows bridges the gap between the fluid dynamics and molecular physics communities emphasizing the role played by elementary processes in hypersonic flows In particular the work is primarily dedicated to filling the gap between microscopic and macroscopic treatments of the source terms to be inserted in the fluid dynamics codes The first part of the book describes the molecular dynamics of elementary processes both in the gas phase and in the interaction with surfaces by using quantum mechanical and phenomenological approaches A second group of contributions describes thermodynamics and transport properties of air components with special attention to the transport of internal energy A series of papers is devoted to the experimental and theoretical study of the flow of partially ionized gases Subsequent contributions treat modern computational techniques for 3 D hypersonic flow Non equilibrium vibrational kinetics are then described together with the coupling of vibration dissociation processes as they affect hypersonic flows Special emphasis is given to the interfacing of non equilibrium models with computational fluid dynamics methods Finally the last part of the book deals with the application of direct Monte Carlo methods in describing rarefied flows

Plasma Assisted Combustion and Chemical Processing Yiguang Ju,Andrey

Starikovskiy, 2025-03-18 Plasma Assisted Combustion and Chemical Processing provides an introduction to the opportunities of plasma assisted combustion and chemical processing for green energy conversion using renewable electricity Covering the fundamentals of combustion and plasma physics and chemistry it details the mechanisms and technologies of plasma enhanced combustion chemical process materials manufacturing and recycling and pollutant control Addressing future challenges and opportunities of plasma assisted combustion and electrified green manufacturing this book covers the state of art methods of modeling and diagnostic tools to optimize the process design This book offers graduate students and researchers a comprehensive review of the fundamentals and research frontier in this emergent field Applications of Pseudosparks Martin A. Gundersen, Gerhard Schaefer, 2012-12-06 The purpose of the 1989 NATO ARW was to develop applications and an improved understanding of the physics for high current emission and conduction observed in hollow cathode hollow anode switches including the pseudo spark and BLT New applications include highly emissive cathodes for microwave devices accelerators and free electron lasers high power tubes electron and ion beams microlithography accelerators and other plasma devices Recent research has produced a new generation of gas phase plasma switches that are characterized by very high current emission and conduction while operating in a glow mode These switches include the pseudospark and the BLT both of which have hollow electrodes switch over 10 to 100 kA peak current and have cathodes with emission 2 2 10 000 Ncm over 1 cm area The cathode properties are especially remarkable about 2 orders of magnitude larger emission than existing thermionic cathodes Part of the meeting was devoted to understanding these properties and exploiting applications of this cathode The remarkable properties of these switches are very surprising in the light of considerable previous work in this area and these results deserve study in order to understand the underlying physical mechanisms and to develop ideas and insight into future applications and foster coherent research in this area The operating cycle of pseudo spark and BL T switches and related devices can be divided into four phases hold off triggering conduction and recovery There was very little discussion of the hold off and recovery phases **Fundamental Aspects of** Plasma Chemical Physics Mario Capitelli, Roberto Celiberto, Gianpiero Colonna, Fabrizio Esposito, Claudine Gorse, Khaled Hassouni, Annarita Laricchiuta, Savino Longo, 2015-11-26 Describing non equilibrium cold plasmas through a chemical physics approach this book uses the state to state plasma kinetics which considers each internal state as a new species with its own cross sections Extended atomic and molecular master equations are coupled with Boltzmann and Monte Carlo methods to solve the electron energy distribution function Selected examples in different applied fields such as microelectronics fusion and aerospace are presented and discussed including the self consistent kinetics in RF parallel plate reactors the optimization of negative ion sources and the expansion of high enthalpy flows through nozzles of different geometries The book will cover the main aspects of the state to state kinetic approach for the description of nonequilibrium cold plasmas illustrating the more recent achievements in the development of kinetic models including the self consistent coupling of

master equations and Boltzmann equation for electron dynamics To give a complete portrayal the book will assess fundamental concepts and theoretical formulations based on a unified methodological approach and explore the insight in related scientific problems still opened for the research community Thermodynamic and Transport Properties of Non-equilibrium Partially Ionized Monatomic Gases Chor-Weng Tan, 1963 **Physical and Chemical Mechanisms in** Molecular Radiation Biology William A. Glass, Matesh N. Varma, 2012-12-06 The fundamental understanding of the production of biological effects by ionizing radiation may well be one of the most important scientific objectives of mankind such understanding could lead to the effective and safe utilization of the nuclear energy option In addition this knowledge will be of immense value in such diverse fields as radiation therapy and diagnosis and in the space program To achieve the above stated objective the U S Department of Energy DOE and its predecessors embarked upon a fundamental interdisciplinary research program some 35 years ago A critical component of this program is the Radiological and Chemical Physics Program RCPP When the RCPP was established there was very little basic knowledge in the fields of physics chemistry and biology that could be directly applied to understanding the effects of radiation on biological systems Progress of the RCPP program in its first 15 years was documented in the proceedings of a conference held at Airlie Virginia in 1972 At this conference it was clear that considerable progress had been made in research on the physical and chemical processes in well characterized systems that could be used to understand biological effects During this period of time most physical knowledge was obtained for the gas phase because the technology and instru mentation had not progressed to the point that measurements could be made in liquids more characteristic of biological materials **Computational Science** and Its Applications - ICCSA 2004 Antonio Laganà, Marina L. Gavrilova, Vipin Kumar, Youngsong Mun, C.J. Kenneth Tan, Osvaldo Gervasi, 2004-05-21 The natural mission of Computational Science is to tackle all sorts of human problems and to work out intelligent automata aimed at alleviating the b den of working out suitable tools for solving complex problems For this reason Computational Science thoughoriginating from the need to solve the most chlenging problems in science and engineering computational science is the key player in the ght to gain fundamental advances in astronomy biology che stry environmental science physics and several other scienti c and engineering disciplines is increasingly turning its attention to all elds of human activity In all activities in fact intensive computation information handling kn ledge synthesis the use of ad hoc devices etc increasingly need to be exploited and coordinated regardless of the location of both the users and the various and heterogeneous computing platforms As a result the key to understanding the explosive growth of this discipline lies in two adjectives that more and more appropriately refer to Computational Science and its applications interoperable and ubiquitous Numerous examples of ubiquitous and interoperable tools and applications are given in the present four LNCS volumes containing the contritions delivered at the 2004 International Conference on Computational Science and its Applications ICCSA 2004 held in Assisi Italy May 14 17 2004 Plasma Processing of

Semiconductors P.F. Williams, 2013-11-11 Plasma Processing of Semiconductors contains 28 contributions from 18 experts and covers plasma etching plasma deposition plasma surface interactions numerical modelling plasma diagnostics less conventional processing applications of plasmas and industrial applications Audience Coverage ranges from introductory to state of the art thus the book is suitable for graduate level students seeking an introduction to the field as well as established workers wishing to broaden or update their knowledge A Survey of Phenomena in Ionized Gases, 1968. Database Needs for Modeling and Simulation of Plasma Processing National Research Council, Division on Engineering and Physical Sciences, Commission on Physical Sciences, Mathematics, and Applications, Panel on Database Needs in Plasma Processing, 1996-10-21 In spite of its high cost and technical importance plasma equipment is still largely designed empirically with little help from computer simulation Plasma process control is rudimentary Optimization of plasma reactor operation including adjustments to deal with increasingly stringent controls on plant emissions is performed predominantly by trial and error There is now a strong and growing economic incentive to improve on the traditional methods of plasma reactor and process design optimization and control An obvious strategy for both chip manufacturers and plasma equipment suppliers is to employ large scale modeling and simulation. The major roadblock to further development of this promising strategy is the lack of a database for the many physical and chemical processes that occur in the plasma The data that are currently available are often scattered throughout the scientific literature and assessments of their reliability are usually unavailable Database Needs for Modeling and Simulation of Plasma Processing identifies strategies to add data to the existing database to improve access to the database and to assess the reliability of the available data In addition to identifying the most important needs this report assesses the experimental and theoretical computational techniques that can be used or must be developed in order to begin to satisfy these needs Proceedings of the Symposium Om Process Control, Diagnostics, and Modeling in Semiconductor Manufacturing M. Meyyappan, Demetre John Economou, Stephanie Watts Butler,1995 Plasma Nanoscience Kostya Ostrikov, 2008-09-08 Filling the need for a single work specifically addressing how to use plasma for the fabrication of nanoscale structures this book is the first to cover plasma deposition in sufficient depth The author has worked with numerous R D institutions around the world and here he begins with an introductory overview of plasma processing at micro and nanoscales as well as the current problems and challenges before going on to address surface preparation generation and diagnostics transport and the manipulation of nano units

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