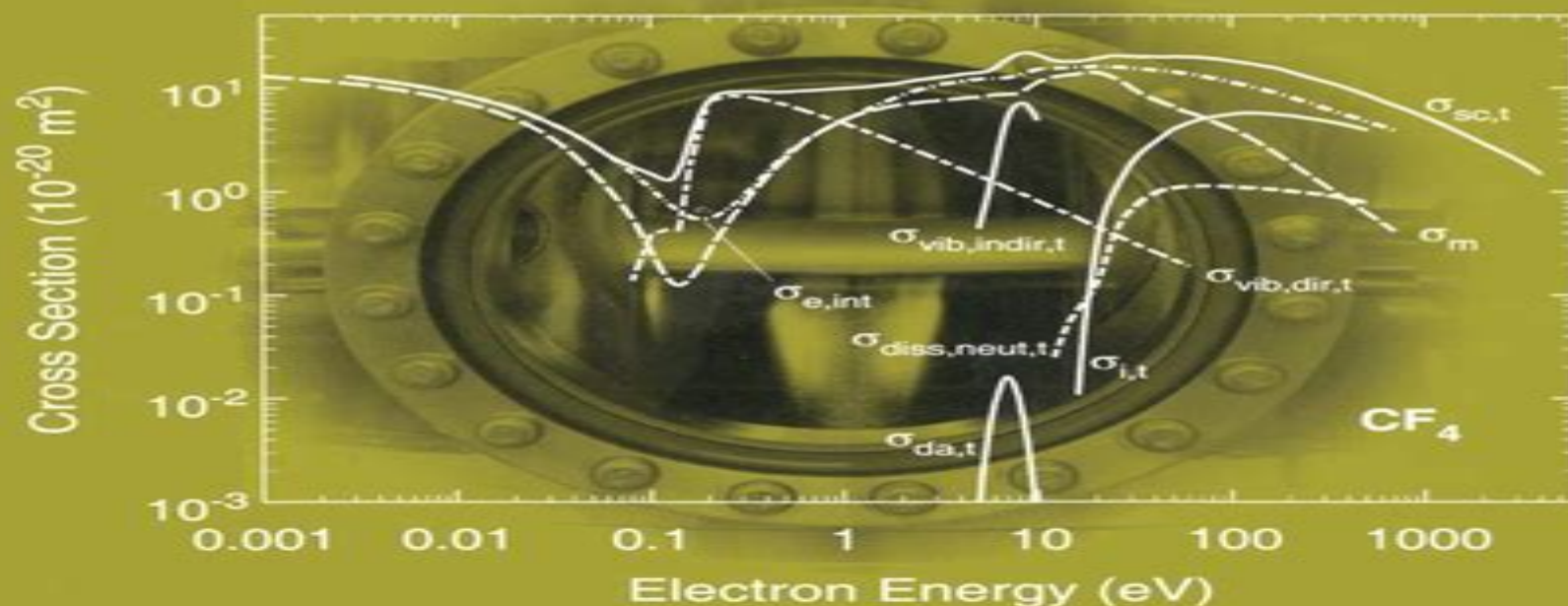


Fundamental Electron Interactions with Plasma Processing Gases



Loucas G. Christophorou
James K. Olthoff

Fundamental Electron Interactions With Plasma Processing Gases Physics Of Atoms And Molecules

Michael Seilmaier



Fundamental Electron Interactions With Plasma Processing Gases Physics Of Atoms And Molecules:

Fundamental Electron Interactions with Plasma Processing Gases Loucas G. Christophorou, James K. Olthoff, 2004

This volume deals with the basic knowledge and understanding of the fundamental interactions of low energy electrons with molecules. Recent advances in electron molecule interaction processes are discussed and a unique up to date and comprehensive account of the fundamental interactions of low energy electrons with molecules of current interest in modern technology specially the semiconductor industry is presented. The material provided in this volume will aid scientists and engineers working in many fields of basic and applied science and engineering. The unique and authoritative knowledge information and understanding it provides generically underpins advances in plasma laser lighting discharge environmental radiation and other technologies.

Fundamental Electron Interactions with Plasma Processing Gases Loucas G. Christophorou, James K. Olthoff, 2012-12-06 This volume deals with the basic knowledge and understanding of fundamental interactions of low energy electrons with molecules. It provides an up to date and comprehensive account of the fundamental interactions of low energy electrons with molecules of current interest in modern technology especially the semiconductor industry. The primary electron molecule interaction processes of elastic and inelastic electron scattering, electron impact ionization, electron impact dissociation and electron attachment are discussed and state of the art authoritative data on the cross sections of these processes as well as on rate and transport coefficients are provided. This fundamental knowledge has been obtained by us over the last eight years through a critical review and comprehensive assessment of all available data on low energy electron collisions with plasma processing gases which we conducted at the National Institute of Standards and Technology. NIST Data from this work were originally published in the Journal of Physical and Chemical Reference Data and have been updated and expanded here. The fundamental electron molecule interaction processes are discussed in Chapter 1. The cross sections and rate coefficients most often used to describe these interactions are defined in Chapter 2 where some recent advances in the methods employed for their measurement or calculation are outlined. The methodology we adopted for the critical evaluation, synthesis and assessment of the existing data is described in Chapter 3. The critically assessed data and recommended or suggested cross sections and rate and transport coefficients for ten plasma etching gases are presented and discussed in Chapters 4, 5 and 6.

Charged Particle and Photon Interactions with Matter Yoshihiko

Hatano, Yosuke, Katsumura, A. Mozumder, 2010-12-13 Building on Mozumder's and Hatano's *Charged Particle and Photon Interactions with Matter: Chemical, Physicochemical and Biological Consequences with Applications* CRC Press 2004. *Charged Particle and Photon Interactions with Matter: Recent Advances, Applications and Interfaces* expands upon the scientific contents of the previous volume by covering

Electron Scattering Colm T. Whelan, Nigel J. Mason, 2006-01-17 There is a unity to physics; it is a discipline which provides the most fundamental understanding of the dynamics of matter and energy. To understand anything about a physical system you have to interact with it and one of the best ways to learn something is to

use electrons as probes This book is the result of a meeting which took place in Magdalene College Cambridge in December 2001 Atomic nuclear cluster solid state chemical and even bio physicists got together to consider scattering electrons to explore matter in all its forms Theory and experiment were represented in about equal measure It was a meeting marked by the most lively of discussions and the free exchange of ideas We all learnt a lot The Editors are grateful to EPSRC through its Collaborative Computational Project program CCP2 IOPP the Division of Atomic Molecular Optical and Plasma Physics DAMOPP and the Atomic Molecular Interactions group AMIG of the Institute of Physics for financial support The smooth running of the meeting was enormously facilitated by the efficiency and helpfulness of the staff of Magdalene College for which we are extremely grateful This meeting marked the end for one of us CTW of a ten year period as a fellow of the College and he would like to take this opportunity to thank the fellows and staff for the privilege of working with them

Advances in Atomic, Molecular, and Optical Physics, 2011-08-09 Volume 55 of the Advances in Atomic Molecular and Optical Physics Series contains seven contributions covering a diversity of subject areas in atomic molecular and optical physics In their contribution Stowe Thorpe Peter Ye Stalnaker Gerginov and Diddams explore recent developments in direct frequency comb spectroscopy Precise phase coherence among successive ultrashort pulses of a frequency comb allows one to probe fast dynamics in the time domain and high resolution structural information in the frequency domain for both atoms and molecules The authors provide a detailed review of some of the current applications that exploit the unique features of frequency comb spectroscopy and discuss its future directions Yurivsky Olshanii and Weiss review theory and experiment of elongated atom traps that confine ultracold gases in a quasi one dimensional regime Under certain conditions these quasi one dimensional gases are well described by integrable one dimensional many body models with exact quantum solutions Thermodynamic and correlation properties of one such model that has been experimentally realized are reviewed DePaola Morgenstein and Andersen discuss magneto optical trap recoil ion momentum spectroscopy MOTRIMS exploring collisions between a projectile and target resulting in charged target fragments MOTRIMS combines the technology of laser cooling and trapping of target atoms with the momentum analysis of the charged fragments that recoil from the target The authors review the different MOTRIMS experimental approaches and the spectroscopic and collisional investigations performed so far Safronova and Johnson give an overview of atomic many body perturbation theory and discuss why extensions of the theory are needed They present all order results based on a linearized version of coupled cluster expansions and apply the theory to calculations of energies transition matrix elements and hyperfine constants Another contribution on atomic theory authored by Fischer explores the advantages of expanding the atomic radial wave functions in a B spline basis The differential equations are replaced by non linear systems of equations and the problems of orthogonality requirements can be dealt with using projection operators Electron ion collisional processes are analyzed by Mueller including descriptions of the experimental techniques needed to obtain cross section data and typical values for these cross sections The present status of

the field is discussed in relation to the detailed cross sections and rate coefficients that are needed for understanding laboratory or astrophysical plasmas Finally Duan and Monroe review ways to achieve scalable and robust quantum communication state engineering and quantum computation Using radiation and atoms ions or atomic ensembles they show that they can construct scalable quantum networks that are inherently insensitive to noise Progress in experimental realization of their proposals is outlined International experts Comprehensive articles New developments

Atomic-Molecular Ionization by Electron Scattering K. N. Joshipura, Nigel Mason, 2019-01-24 A comprehensive and up to date text in the field of electron scattering and ionization covering fundamentals experimental background quantum scattering theories and applications Electron impact ionization of atoms and molecules in ground metastable states is discussed comprehensively The text covers electron scattering phenomena for diatomic and common molecules polyatomic molecules and radicals including hydro carbons fluoro carbons and other larger molecules together with relevant radical species in detail Applications of electron impact ionization and excitation in gaseous or plasma and condensed matter is discussed in a separate chapter Recent advances in the field of electron molecule scattering and ionization for polyatomic molecules is covered extensively **Nonthermal Plasma Chemistry and Physics** Jurgen Meichsner, Martin Schmidt, Ralf Schneider, Hans-Erich Wagner, 2012-11-13 In addition to introducing the basics of plasma physics Nonthermal Plasma Chemistry and Physics is a comprehensive presentation of recent developments in the rapidly growing field of nonthermal plasma chemistry The book offers a detailed discussion of the fundamentals of plasma chemical reactions and modeling nonthermal plasma sources relevant New Trends in Atomic and Molecular Physics Man Mohan, 2013-07-11 The field of Atomic and Molecular Physics AMP has reached significant advances in high precision experimental measurement techniques The area covers a wide spectrum ranging from conventional to new emerging multi disciplinary areas like physics of highly charged ions HCI molecular physics optical science ultrafast laser technology etc This book includes the important topics of atomic structure physics of atomic collision photoexcitation photoionization processes Laser cooling and trapping Bose Einstein condensation and advanced technology applications of AMP in the fields of astronomy astrophysics fusion biology and nanotechnology This book is useful for researchers professors graduate postgraduate and PhD students dealing with atomic and molecular physics The book has a wide scope with applications in neighboring fields like plasma physics astrophysics cold collisions nanotechnology and future fusion energy sources like ITER international Thermonuclear Experimental Reactor Tokamak plasma machine which need accurate AMP data The Physics of Ionized Gases Ljupco Hadzievski, Tasko Grozdanov, Natasa Bibic, 2004-12-14 The very nature of the Symposium on the Physics of Ionized Gases SPIG is to have four different fields that converge into one multidisciplinary field of the physics of ionized gases gas phase and binary collisions collisions with surfaces low temperature plasmas and collective phenomena These four fields have strong interactions in numerous applications However due to the development of specialized international conferences it has

become increasingly rare that such a wide range of topics is covered at a single conference As the four fields often overlap and merge in numerous fundamental studies and more importantly applications SPIG serves as a venue for exchanging ideas in the four related fields This volume contains the invited lectures topical invited lectures and progress reports presented at the 22nd Summer School and International Symposium on the Physics of Ionized Gases SPIG 2004 The papers were peer reviewed by the scientific committee Emerging Dynamics: Science, Energy, Society and Values Loucas G.

Christophorou, 2018-06-08 Emerging Dynamics Science Energy Society and Values focuses on the impact of science science based technology and scientific values on present day humanity and its future The book advocates for a science willing to accommodate both human values and scientific facts The four main subjects focused on throughout the text are The overwhelming impact of modern science and science based technology on virtually every aspect of human life Human values and their significance for science and society The need for mutual accommodation between scientific values and the traditional values of society The fundamental role of energy for civilization and society The book cuts across scientific disciplines and looks at modern civilization through the knowledge provided by the physical chemical biomedical and other branches of natural science The book is unique in its holistic approach combining knowledge acquired by deduction reduction induction and experimental scientific methods with knowledge acquired through history philosophy the arts faith and cultural traditions Modern civilization s most distinct characteristics are due to science science based technology and energy The role of energy in the sustainability of civilization and the impact of biomedical science on man are especially emphasized throughout this timely book making a case for a hopeful future based on both science and values A science guided in its applications by human values and a value system cognizant of the facts of science and willing to accommodate them Nonthermal Plasmas for Materials Processing Jörg Florian Friedrich, Jürgen Meichsner, 2022-07-15 NONTHERMAL PLASMAS FOR MATERIALS PROCESSING This unique book covers the physical and chemical aspects of plasma chemistry with polymers and gives new insights into the interaction of physics and chemistry of nonthermal plasmas and their applications in materials science for physicists and chemists The properties and characteristics of plasmas elementary collision processes in the gas phase plasma surface interactions gas discharge plasmas and technical plasma sources atmospheric plasmas plasma diagnostics polymers and plasmas plasma polymerization post plasma processes plasma and wet chemical processing plasma induced generation of functional groups and the chemical reactions on these groups along with a few exemplary applications are discussed in this comprehensive but condensed state of the art book on plasma chemistry and its dependence on plasma physics While plasma physics plasma chemistry and polymer science are often handled separately the aim of the authors is to harmoniously join the physics and chemistry of low pressure and atmospheric pressure plasmas with polymer surface chemistry and polymerization and to compare such chemistry with classic chemistry Readers will find in these chapters Interaction of plasma physics and chemistry in plasmas and at the surface of polymers

Explanation and interpretation of physical and chemical mechanisms on plasma polymerization and polymer surface modification Introduction of modern techniques in plasma diagnostics surface analysis of solids and special behavior of polymers on exposure to plasmas Discussion of the conflict of energy rich plasma species with permanent energy supply and the much lower binding energies in polymers and alternatives to avoid random polymer decomposition Technical applications such as adhesion cleaning wettability textile modification coatings films etc New perspectives are explained about how to use selective and mild processes to allow post plasma chemistry on non degraded polymer surfaces Audience Physicists polymer chemists materials scientists industrial engineers in biomedicine coatings printing etc **Fundamentals of Ionized Gases**

Boris M. Smirnov, 2012-09-19 A comprehensive and readily accessible work for studying the physics of ionized gases based on *Physics of Ionized Gases* The focus remains on fundamentals rather than on the details required for interesting but difficult applications such as magnetic confinement fusion or the phenomena that occur with extremely high intensity short pulse lasers However this new work benefits from much rearranging of the subject matter within each topic resulting in a more coherent structure There are also some significant additions many of which relate to clusters while other enlarged sections include plasmas in the atmosphere and their applications In each case the emphasis is on a clear and unified understanding of the basic physics that underlies all plasma phenomena Thus there are chapters on plasma behavior from the viewpoint of atomic and molecular physics as well as on the macroscopic phenomena involved in physical kinetics of plasmas and the transport of radiation and of charged particles within plasmas With this grounding in the fundamental physics of plasmas the notoriously difficult subjects of nonlinear phenomena and of instabilities in plasmas can then be treated with comprehensive clarity The work is rounded off with appendices containing information and data of great importance and relevance that are not easily found in other books Valuable reading for graduate and PhD physics students and a reference for researchers in low temperature ionized gases plasma processing edge region fusion plasma physics and atmospheric plasmas Advances in Atomic, Molecular, and Optical Physics Paul R. Berman, Ennio Arimondo, Chun C.

Lin, 2011-10-03 *Advances in Atomic Molecular and Optical Physics* publishes reviews of recent developments in a field which is in a state of rapid growth as new experimental and theoretical techniques are used on many old and new problems Topics covered include related applied areas such as atmospheric science astrophysics surface physics and laser physics Articles are written by distinguished experts and contain both relevant review material and detailed descriptions of important recent developments International experts Comprehensive articles New developments *Journal of Research of the National Institute of Standards and Technology*, 2000 **Springer Handbook of Atomic, Molecular, and Optical Physics** Gordon W. F. Drake, 2007-02-05 Comprises a comprehensive reference source that unifies the entire fields of atomic molecular and optical AMO physics assembling the principal ideas techniques and results of the field 92 chapters written by about 120 authors present the principal ideas techniques and results of the field together with a guide to the primary research

literature carefully edited to ensure a uniform coverage and style with extensive cross references Along with a summary of key ideas techniques and results many chapters offer diagrams of apparatus graphs and tables of data From atomic spectroscopy to applications in comets one finds contributions from over 100 authors all leaders in their respective disciplines Substantially updated and expanded since the original 1996 edition it now contains several entirely new chapters covering current areas of great research interest that barely existed in 1996 such as Bose Einstein condensation quantum information and cosmological variations of the fundamental constants A fully searchable CD ROM version of the contents accompanies the handbook

Gaseous Electronics Gorur Govinda Raju, 2018-09-03 With the constant emergence of new research and application possibilities gaseous electronics is more important than ever in disciplines including engineering electrical power mechanical electronics and environmental physics and electronics The first resource of its kind *Gaseous Electronics Tables Atoms and Molecules* fulfills the author's vision of a stand alone reference to condense 100 years of research on electron neutral collision data into one easily searchable volume It presents most if not all of the properly classified experimental results that scientists researchers and students require for a theoretical and practical understanding of collision properties and their impact An unprecedented collection and analysis of electron neutral collision properties This book follows a new user friendly format that enables readers to easily retrieve analyze and apply specific atomic molecular information as needed In his previous work *Gaseous Electronics Theory and Practice* the author first explored electron neutron interactions To clarify the complex fundamental processes involved he cited as much experimental data on atoms and molecules as limited space would allow Completing that task this handy reference more fully compiles essential revised data on more than 420 atoms and molecules arranging it into easily digestible chapters sections and appendices Analysis parameters include total scattering ionization excitation attachment cross sections ionization and attachment coefficients attachment rates and ion drift velocity Some recent research areas in gaseous electronics include Environmentally efficient and protective lighting devices Plasma research for power generation and space applications Medical applications some involving skin treatment and healing Written entirely in SI units the book includes hundreds of tables figures and specially drawn charts with data expressed in both tabular and graphical form Each chapter stands independently and contains references for further research

Gaseous Dielectrics IX Loucas G. Christophorou, James K. Olthoff, 2012-12-06 *Gaseous Dielectrics IX* covers recent advances and developments in a wide range of basic applied and industrial areas of gaseous dielectrics

Energy Research Abstracts ,1993 Nuclear Science Abstracts ,1973 **Graduate Studies** ,1984

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