



Electron Molecule Scattering

Jerry Lee Peacher



Electron Molecule Scattering:

Low-Energy Electron Scattering from Molecules, Biomolecules and Surfaces Petr Carsky, Roman Curik, 2016-04-19 Since the turn of the 21st century the field of electron molecule collisions has undergone a renaissance The importance of such collisions in applications from radiation chemistry to astrochemistry has flowered and their role in industrial processes such as plasma technology and lighting are vital to the advancement of next generation devices F Electron-molecule

Scattering Sanborn Conner Brown, 1979 **Electron-Molecule Scattering and Photoionization** P.G. Burke, J.B. West, 2012-12-06 This volume contains the invited papers and selected contributed papers presented at the International Symposium on Electron Molecule Scattering and Photoionization held at SERC's Daresbury Laboratory Cheshire England from 18th to 19th July 1987 This Symposium was a Satellite Meeting to the XVth International Conference on the Physics of Electronic and Atomic Collisions ICPEAC I and follows a tradition of Satellite Meetings in related areas of collisions held in association with previous ICPEAC's In order to make this volume as representative of the Symposium as possible Hot Topics presented orally at the meeting together with a few papers selected by the Programme Committee from the contributed posters are included The Editors are grateful to the authors for responding rapidly to the invitation to submit their contributions for inclusion in the volume as indeed they are grateful to all the authors for the high quality of their contributions The Symposium brought together over 100 scientists from many countries and from broad interdisciplinary backgrounds to hear about current rapid advances in electron molecule scattering and photoionization These advances have been stimulated on the experimental side by the increasing availability of electron beams with millivolt energy resolution by synchrotron radiation sources and by intense tunable lasers On the theoretical side the introduction of new computational methods enables accurate predictions to be made resulting in a new and deeper understanding of the basic physical processes involved **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

Electron-Molecule Collisions Isao Shimamura, Kazuo Takayanagi, 2013-11-11 Scattering phenomena play an important role in modern physics. Many significant discoveries have been made through collision experiments. Amongst diverse kinds of collision systems, this book sheds light on the collision of an electron with a molecule. The electron-molecule collision provides a basic scattering problem. It is scattering by a nonspherical multicentered composite particle with its centers having degrees of freedom of motion. The molecule can even disintegrate, dissociate, or ionize into fragments, some or all of which may also be molecules. Although it is a difficult problem, the recent theoretical, experimental, and computational progress has been so significant as to warrant publication of a book that specializes in this field. The progress owes partly to technical developments in measurements and computations. No less important has been the great and continuing stimulus from such fields of application as astrophysics, the physics of the earth's upper atmosphere, laser physics, radiation physics, the physics of gas discharges, magnetohydrodynamic power generation, and so on. This book aims at introducing the reader to the problem of electron-molecule collisions, elucidating the physics behind the phenomena, and reviewing to some extent up-to-date important results. This book should be appropriate for graduate reading in physics and chemistry. We also believe that investigators in atomic and molecular physics will benefit much from this book.

Computational Methods for Electron-Molecule Collisions Franco A. Gianturco, W.M. Huo, 2013-06-29 The collision of electrons with molecules and molecular ions is a fundamental process in atomic and molecular physics and in chemistry. At high incident electron energies, electron-molecule collisions are used to deduce molecular geometries, oscillator strengths for optically allowed transitions, and in the case of electron impact ionization, to probe the momentum distribution of the molecule itself. When the incident electron energy is comparable to or below those of the molecular valence electrons, the physics involved is particularly rich. Correlation and exchange effects necessary to describe such collision processes bear a close resemblance to similar effects in the theory of electronic structure in molecules. Compound state formations in the form of resonances and virtual states manifest themselves in experimental observables which provide details of the electron-molecule interactions. Rotational excitations by low-energy electron collisions exemplify energy transfer between the electronic and nuclear motion. The role of nonadiabatic interaction is raised here. When the final vibrational state is in the continuum, molecular dissociation occurs. Dissociative recombination and dissociative attachment are examples of such fragmentation processes. In addition to its fundamental nature, the study of electron-molecule collisions is also motivated by its relation to other fields of study and by its technological applications. The study of planetary atmospheres and the interstellar medium necessarily involve collision processes of electrons with molecules and molecular ions.

Frame Transformations in Electron-molecule Scattering Charles Albert Weatherford, 1974

Electron Collisions with Molecules, Clusters, and Surfaces H. Ehrhardt, L.A. Morgan, 2013-06-29 This volume contains the invited papers and selected contributed papers

presented at the biennial International Symposium on ELECTRON COLLISIONS WITH MOLECULES CLUSTERS AND SURFACES held at Royal Holloway University of London from 29th to 30th July 1993 This Symposium was a Satellite Meeting of the XVIII International Conference on the Physics of Electronic and Atomic Collisions ICPEAC and follows a 16 year tradition of Satellite Conferences in related areas of collisions held in association with previous ICPEAC s In the past each of these electron molecule symposia covered the broad field of electron molecule scattering at rather low energies but also included hot topics This time as well as covering the whole field well defined electron collisions with clusters and with particles in the complex potential of a surface were emphasized Not many details are known about such collisions although they become more and more important in surface characterisation plasma wall interactions electron induced desorption and reorganisation of adsorbed particles Recently much work theoretical and experimental has been devoted to electron collisions with rather large carbon silicon and halogen containing molecules These problems are of relevance in plasma assisted thin film formation and etching of surfaces and can now be approached with advanced theoretical methods and experimental equipment

Electron-Molecule Interactions and Their Applications L Christophorou, 2012-12-02 Electron Molecule Interactions and Their Applications Volume 1 presents a comprehensive account of electron molecule interactions in high and ultra high pressure gases and liquids Topics covered include elastic scattering of electrons by molecules excitation ionization and dissociation of molecules by electron impact electron molecule resonances and electron attachment and detachment processes This volume is comprised of seven chapters and begins with a discussion on non resonant elastic scattering and rotational excitation of molecules by electrons followed by a review of non resonant vibrational and electronic excitation The reader is then introduced to resonance effects in electron scattering electron induced ionization and dissociation of molecules and electron molecule resonances The ionization mechanisms and types of ions produced are highlighted along with differential ionization cross sections The final two chapters focus on electron attachment and detachment processes paying particular attention to modes of electron capture by molecules such as via negative ion resonant states The collisional dynamics for a few selected atomic reactants are also described Physicists will find this book extremely helpful

Electron-Molecule and Photon-Molecule Collisions T.N. Rescigno, 2012-12-06 The First Asilomar Conference on Electron and Photon Molecule Collisions was held August 1-4 1978 in Pacific Grove California This meeting brought together forty scientists who are actively involved in theoretical studies of electron scattering by and photoionization of small molecules In this volume are collected the contributions of the invited speakers as well as the roundtable and evening discussions condensed from taped recordings of the entire proceedings The subject matter reflects current activity in the field and describes many of the techniques that are being developed and applied to molecular collision problems We would like to thank the Air Force Office of Scientific Research AFOSR and the Office of Naval Research ONR for providing the financial support that made this conference possible Special thanks are due to Dr Robert Junker of ONR and Dr Ralph

Kelley of AFOSR for the interest and encouragement they provided in all phases of this meeting We also thank all the participants whose efforts and contributions made this conference a success Finally we thank Ms Charlotte MacNaughton and Ms Sara Jackson for the many hours they spent transcribing tapes and preparing this volume for publication

Electron Molecule Scattering Brown SC.,1979 *Electron-molecule Scattering Cross-sections* Stephen J. Buckman,2002 **Electron-Atom and Electron-Molecule Collisions** Jürgen Hinze,2013-11-11 The papers collected in this volume have been presented during a workshop on Electron Atom and Molecule Collisions held at the Centre for Interdisciplinary Studies of the University of Bielefeld in May 1980 This workshop part of a larger program concerned with the Properties and Reactions of Isolated Molecules and Atoms focused on the theory and computational techniques for the quantitative description of electron scattering phenomena With the advances which have been made in the accurate quantum mechanical characterisation of bound states of atoms and molecules the more complicated description of the unbound systems and resonances important in electron collision processes has matured too As explained in detail in the articles of this volume the theory for the quantitative explanation of elastic and inelastic electron molecule collisions of photo and multiple photon ionization and even for electron impact ionization is well developed in a form which lends itself to a complete quantitative ab initio interpretation and prediction of the observable effects Many of the experiences gained and the techniques which have evolved over the years in the computational characterization of bound states have become an essential basis for this development To be sure much needs to be done before we have a complete and detailed theoretical understanding of the known collisional processes and of the phenomena and effects which may still be uncovered with the continuing refinement of the experimental techniques **Resonances in electron molecule scattering** Robin Pizer,University of Manchester,1969 **Introduction to the Theory of Collisions of Electrons with Atoms and Molecules** Satya P. Khare,2002 An understanding of the collisions between micro particles is of great importance for the number of fields belonging to physics chemistry astrophysics biophysics etc The present book a theory for electron atom and molecule collisions is developed using non relativistic quantum mechanics in a systematic and lucid manner The scattering theory is an essential part of the quantum mechanics course of all universities During the last 30 years the author has lectured on the topics presented in this book collisions physics photon atom collisions electron atom and electron molecule collisions electron photon delayed coincidence technique etc at many institutions including Wayne State University Detroit MI The University of Western Ontario Canada and The Meerut University India The present book is the outcome of those lectures and is written to serve as a textbook for post graduate and pre PhD students and as a reference book for researchers

Spin-dependent Electron-molecule Scattering Adam Stearns Green,2003 **High Resolution, Low Energy Electron-molecule Scattering** Gerhard Mrotzek,1989 Electron-Molecule Scattering and Ionization Arvid Herzenberg,1990 *Wavefunctions and Mechanisms from Electron Scattering Processes* F.A. Gianturco,G.

Stefani,2012-12-06

A Theoretical Investigation of Electron Molecule Scattering Jerry Lee Peacher,1965

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