

PHYSICS OF ATOMS AND MOLECULES

# New Directions in Atomic Physics



Edited by

Colm T. Whelan, R. M. Dreizler,  
J. H. Macek, and H. R. J. Walters

# New Directions In Atomic Physics Physics Of Atoms And Molecules

**Clifford M. Surko, Franco A. Gianturco**



## **New Directions In Atomic Physics Physics Of Atoms And Molecules:**

New Directions in Atomic Physics C.T. Whelan, Reiner M. Dreizler, J.H. Macek, H.R.J. Walters, 2012-12-06 The last few years have seen some remarkable advances in the understanding of atomic phenomena It is now possible to isolate atomic systems in traps measure in coincidence the fragments of collision processes routinely produce and study multicharged ions One can look at bulk matter in such a way that the fundamental atomic character is clearly evident and work has begun to tease out the properties of anti matter The papers in this book reflect many aspects of modern Atomic Physics They correspond to the invited talks at a conference dedicated to the study of New Directions in Atomic Physics which took place in Magdalene College Cambridge in July of 1998 The meeting was designed as a way of taking stock of what has been achieved and it was hoped as a means of stimulating new research in new areas along new lines Consequently an effort was made to touch on as many directions as we could in the four days of the meeting We included some talks which overviewed whole subfields as well as quite a large number of research contributions There is a unity to Physics and we tried to avoid any artificial division between theory and experiment We had roughly the same number of talks from those who are primarily concerned with making measurements and from those who spend their lives trying to develop the theory to describe the experiments **Many-Particle Spectroscopy of Atoms, Molecules, Clusters, and Surfaces** J. Berakdar, J.

Kirschner, 2012-12-06 Since the early days of modern physics spectroscopic techniques have been employed as a powerful tool to assess existing theoretical models and to uncover novel phenomena that promote the development of new concepts Conventionally the system to be probed is prepared in a well defined state Upon a controlled perturbation one measures then the spectrum of a single particle electron photon etc emitted from the probe The analysis of this single particle spectrum yields a wealth of important information on the properties of the system such as optical and magnetic behaviour Therefore such analysis is nowadays a standard tool to investigate and characterize a variety of materials However it was clear at a very early stage that real physical compounds consist of many coupled particles that may be excited simultaneously in response to an external perturbation Yet the simultaneous coincident detection of two or more excited species proved to be a serious technical obstacle in particular for extended electronic systems such as surfaces In recent years however coincidence techniques have progressed so far as to image the multi particle excitation spectrum in an impressive detail Correspondingly many body theoretical concepts have been put forward to interpret the experimental findings and to direct future experimental research This book gives a snapshot of the present status of multi particle coincidence studies both from a theoretical and an experimental point of view It also includes selected topical review articles that highlight the achievements and the power of coincident techniques **New Directions in Antimatter Chemistry and Physics** Clifford M.

Surko, Franco A. Gianturco, 2007-05-08 This volume is the outgrowth of a workshop held in October 2000 at the Institute for Theoretical Atomic and Molecular Physics at the Harvard Smithsonian Center for Astrophysics in Cambridge MA The aim of

this book similar in theme to the workshop is to present an overview of new directions in antimatter physics and chemistry research. The emphasis is on positron and positronium interactions both with themselves and with ordinary matter. The timeliness of this subject comes from several considerations. New concepts for intense positron sources and the development of positron accumulators and trap based positron beams provide qualitatively new experimental capabilities. On the theoretical side, the ability to model complex systems and complex processes has increased dramatically in recent years due in part to progress in computational physics. There are presently an intriguing variety of phenomena that await theoretical explanation. It is virtually assured that the new experimental capabilities in this area will lead to a rapid expansion of this list. This book is organized into four sections. The first section discusses potential new experimental capabilities and the uses and the progress that might be made with them. The second section discusses topics involving antihydrogen and many body phenomena including Bose condensation of positronium atoms and positron interactions with materials. The final two sections treat a range of topics involving positron and positronium interactions with atoms and molecules.

**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.

**Complete Scattering Experiments** Uwe Becker, Albert Crowe, 2006-04-18 The Hans Kleinpoppen Symposium on Complete Scattering Experiments was held in honor of Hans Kleinpoppen's 70 birthday. It took place in Il Ciocco, Italy. The symposium had two purposes: to present the work that Hans Kleinpoppen has done or initiated during his remarkable scientific career and to bring people from various fields together who perform complete scattering experiments. Hans

Kleinpoppen's work included electron and photon impact experiments which were accompanied by studies of entangled states a field of high current interest Representatives from each of these fields gave excellent lectures on their particular subjects and many discussions that started during the sessions were continued later in the relaxed atmosphere of the Il Ciocco resort The breathtaking view of the beautiful landscape will be an unforgotten memory to all who participated in this extraordinary scientific event The coherent and ideal combination of subject people and location reflected the coherence of Hans Kleinpoppen's aims and activities in science and life We offer our grateful thanks to all contributors who made this volume such a worthy tribute to Hans Kleinpoppen We also like to thank Rainer Hentges for the painstaking work to prepare this volume in its complete ready to print version We are also grateful to the Royal Society of London and the Max Planck Gesellschaft who generous support of the Hans Kleinpoppen symposium made this marvelous meeting and this proceedings possible

**Electron Momentum Spectroscopy** Erich Weigold, Ian McCarthy, 2012-12-06 Electron Momentum Spectroscopy measures the energy momentum density of the electrons in atoms molecules and solids by means of a kinematically complete ionization reaction initiated by an electron beam The construction of spectrometers and the acquisition and reduction of cross section data are described in detail The quantum theory of the reaction is explained and the experimental verification is given It is shown how to extract quasiparticle orbitals and coefficients describing electron correlations of the data These quantities are derived from the many body theory of the electronic structure of atoms molecules and solids The relationship to less complete methods of investigating electronic structure is discussed Examples are given of the determination of atomic and molecular orbitals and quantities relating them to the observed states of the residual ion For amorphous polycrystalline and crystalline solids and surfaces examples show the energy momentum density of valence electron bands and effects due to electron diffraction and plasmon excitation The book aims to give a complete account of electron momentum spectroscopy to date Its significance is that it is a sensitive and experimentally verifiable test of essentially every aspect of calculations of electronic structure It is the only such probe available

**Nuclear Science Abstracts**, 1975 **Relativistic Heavy-Particle Collision Theory** Derrick S.F. Crothers, 2012-12-06 If a heavy particle ion atom molecule muon collides with another in the gas phase at speeds approaching the speed of light the time dependent Dirac equation must be used for its description including quantum electrodynamic special relativity and magnetic coupling effects In this book we study one electron in the variety of rearrangement collisions radiative and non radiative capture ionization capture by pair one electron one positron production and antihydrogen production Our relativistic continuum distorted wave theory accounts extremely well for the simultaneous behaviour of the electron with respect to the nuclear charges of the projectile and the target This is the first book developed in this subject Containing many diagrams and tables and fully referenced it goes beyond chapters in previous books The relativistic continuum distorted wave theory developed by the authors group is shown to be fully Hermitean Detailed mathematics are provided in nine appendices

Guide to Programs National Science Foundation (U.S.),1983      **New Directions in Research with Third-Generation Soft X-Ray Synchrotron Radiation Sources** A.S. Schlachter,F.J. Wuilleumier,2012-12-06 Soft X rays are a powerful probe of matter They interact selectively with electrons in atoms and molecules and can be used to study atomic physics chemical reactions surfaces and solids and biological entities Over the past 20 years synchrotrons have emerged as powerful sources of soft X rays for experimental use A new third generation of synchrotron light sources is scheduled to start operation over the next few years beginning in 1993 These facilities are distinguished by their ultra low emittance electron beams and by their undulators precisely engineered magnetic devices that cause the electrons passing through them to produce highly coherent X rays and ultraviolet light of unprecedented spectral brightness This volume emphasizes third generation sources that produce light in the 10 eV 10 KeV energy range It describes potential applications ranging from the purely scientific to the commercially viable and includes chapters on the practical aspects of designing undulators and beam line optics Unique in its coverage the book is a vital addition to the library of any scientist who needs information on the world s most advanced imaging and spectroscopic techniques **ABSTRACT** This volume emphasizes the applications of new third generation synchrotron radiation sources that produce light in the ultraviolet and soft X ray range of the spectrum The unprecedented brightness of this light enables experiments to be conducted with greatly increased spatial and spectral resolution Scientists can exploit these properties for imaging and spectroscopic applications that until now were impossible or impractical Prominent researchers in the field describe these applications and others made possible by the light s pulsed time structure and polarization The volume also includes chapters on the practical aspects of designing undulators and beam line optics

**Health and Safety Research Division Progress Report for the Period ... ,1979-10      Physical Foundations of Quantum Electronics** David Nikolaevich Klyshko,Maria Chekhova,Sergey Kulik,2011 A textbook that introduces a graduate student to the various fields of physics related to the interaction between radiation and matter It emphasizes analogies and relations between seemingly different phenomena and different fields of quantum electronics      Publications of the National Institute of Standards and Technology ... Catalog National Institute of Standards and Technology (U.S.),1991      *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 soHd 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 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

Relativistic Quantum Chemistry Markus Reiher, Alexander Wolf, 2009-02-17 Written by two researchers in the field this book is a reference to explain the principles and fundamentals in a self contained complete and consistent way Much attention is paid to the didactical value with the chapters interconnected and based on each other From beginning to end the authors deduce all the concepts and rules such that readers are able to understand the fundamentals and principles behind the theory Essential reading for theoretical chemists and physicists Book Jacket

**New Directions in Quantum Chaos** Società italiana di fisica, 2000 The rapid progress of the research field of quantum chaos and its applications called for a book that keeps students abreast of the new developments and at the same time provides a solid basis in subjects which form the canon of the field This book discusses the following topics Spectral statistics and their semiclassical interpretation in terms of the Gutzwiller trace formula Quantum chaos and its applications in mesoscopic physics Spectral statistics and conductance fluctuations and Quantum chaos in systems with many degrees of freedom The book connects and continues past and present achievements and prepares the ground for a future full of intriguing and important developments

The Pioneers of NMR and Magnetic Resonance in Medicine James Mattson, Merrill Simon, 1996 A fascinating account of the dramatic history of a revolutionary medical breakthrough that began with the detection of magnetic resonance in molecular beams by Isidor Rabi

*Proceedings of the XVIII International Conference on Atomic Physics* Hossein R. Sadeghpour, Eric Johnson Heller, David E. Pritchard, 2003 This important proceedings volume highlights the major scientific achievement of the last decade in atomic physics namely the creation of the gaseous Bose Einstein condensate which was featured prominently at the XVIII International Conference on Atomic Physics ICAP2002 Two recipients of the 2001 Nobel Prize delivered lectures at the meeting Among the topics discussed were novel processes leading to degenerate Fermi gases in atom traps creation of cold molecules condensates in optical lattices atoms in intense fields tests of fundamental symmetries quantum control and information time and frequency standards

*Springer Handbook of Atomic, Molecular, and Optical Physics* Gordon W. F. Drake, 2023-02-09 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     **Electronics Engineers' Handbook** Donald G. Fink,Donald Christiansen,1989 Very Good No Highlights or Markup all pages are intact



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