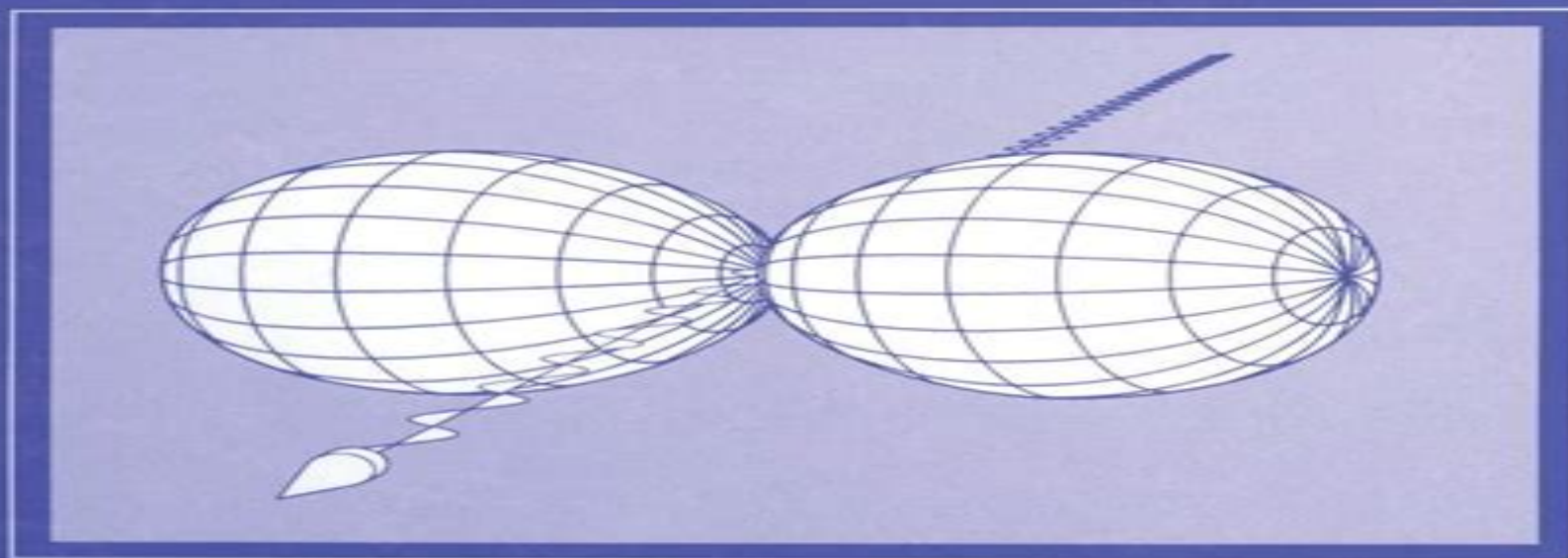


Physics of Atoms and Molecules

VUV AND SOFT X-RAY PHOTOIONIZATION



Edited by
UWE BECKER
AND
DAVID A. SHIRLEY

Vuv And Soft X Ray Photoionization Physics Of Atoms And Molecules

Karl Blum



Vuv And Soft X Ray Photoionization Physics Of Atoms And Molecules:

VUV and Soft X-Ray Photoionization Uwe Becker, David A. Shirley, 1996-08-31 Leading investigators offer the first comprehensive study of gas phase photoionization research in the VUV and soft X ray regime since the massive employment of synchrotron radiation as a spectroscopic tool Chapters cover all aspects of photoionization phenomena from total cross sections to highly differentiated measurements such as coincidence experiments and spin resolved electron spectroscopy This work is abundant with illustrations

VUV and Soft X-Ray Photoionization Uwe Becker, David A. Shirley, 2012-12-06 Leading investigators offer the first comprehensive study of gas phase photoionization research in the VUV and soft X ray regime since the massive employment of synchrotron radiation as a spectroscopic tool Chapters cover all aspects of photoionization phenomena from total cross sections to highly differentiated measurements such as coincidence experiments and spin resolved electron spectroscopy This work is abundant with illustrations

Analysis of Excitation and Ionization of Atoms and Molecules by Electron Impact Afzal Chaudhry, Hans Kleinpoppen, 2010-10-17 The content of this book describes in detail the results of the present measurements of the partial and total doubly differential cross sections for the multiple ionization of rare gas atoms by electron impact These measurements show beside other trends the role of Auger transitions in the production of multiply ionized atoms in the region where the incident electron energy is sufficient to produce inner shell ionization Other processes like Coster Kronig transitions and shake off also contribute towards increasing the charge of the ions The incident electron having energy of 6 keV for example in a collision with xenon atom can remove up to nine electrons X ray ion coincidence spectroscopy of the electron xenon atom collisions is also described The present measurements of doubly differential cross sections for the dissociative and non dissociative ionization of hydrogen sulfur dioxide and sulfur hexa fluoride molecular gases by electron impact are also described in the text of this book The results of the measurements for sulfur dioxide molecule show how this major atmospheric pollutant can be removed from the atmosphere by electron impact dissociation of this molecule The present results of the measurements for sulfur hexa fluoride give an insight into the dissociation properties of this molecular gas which is being so widely used as a gaseous insulator in the electrical circuits The book also describes the present measurements of the polarization parameters of the fluorescence radiation emitted by the electron impact excited atoms of sodium and potassium In these investigations the target atoms are polarized therefore the measurements of the polarization parameters give information about the electron atom interaction in terms of the interference direct and exchange interaction channels

Introduction to the Theory of X-Ray and Electronic Spectra of Free Atoms Romas Karazija, 2013-11-21 Covering both theory and applications this important work provides a comprehensive introduction to the modern theory of X ray and electronic spectra of free atoms Romas Karazija discusses methods of angular momenta irreducible tensorial operators and coefficients of fractional parentage and their use in determining cross sections and probabilities of elementary processes In addition Karazija addresses the structure of

electronic shells with inner vacancies and many body effects *Proceedings of the ... EGAS Conference of the European Group for Atomic Spectroscopy* European Group for Atomic Spectroscopy. Conference,1998 *Electron Spectrometry of Atoms Using Synchrotron Radiation* Volker Schmidt,1997-05-15 The study of electron spectrometry using synchrotron radiation is a growing field of research driven by the increasing availability of advanced synchrotron radiation light sources and improved theoretical methods for solving the many electron problem in atoms This balanced account by a leading researcher in this field will be of value to both theorists and experimentalists in atomic molecular and chemical physicists

Energy Research Abstracts ,1989 *Diamondoid Molecules: With Applications In Biomedicine, Materials Science, Nanotechnology & Petroleum Science* G Ali Mansoori,Elmo Silvano De Araujo,Patricia Lopes Barros De Araujo,2012-09-06 Diamondoids are cage like ultra stable saturated ringed hydrocarbons which have a diamond like structure consisting of a number of six member carbon rings fused together Adamantane is the cage compound prototype and the simplest diamondoid molecule Diamondoids Molecules aims to present these fascinating substances in a novel fashion The more intriguing facets of diamondoid molecules are comprehensively exposed and discussed bringing state of the art information to the reader along with the history fundamentals and perspectives of diamondoid science and technology This groundbreaking book especially devoted to diamondoid molecules is of critical importance to the global techno scientific community and will be of great interest in many research fields such as chemistry physics material science geology and biological sciences Moreover it will attract readers from industrial government and environmental agencies as well as scholars **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 **Photon and Electron Collisions with Atoms and Molecules** Philip G. Burke,Charles J. Joachain,2012-12-06 Research on photon and electron collisions with atomic and molecular targets and their ions has seen a rapid increase in interest both experimentally and theoretically in recent years This is partly because these processes provide an ideal means of investigating the dynamics of many particle systems at a fundamental level and partly because their detailed understanding is required in many other

fields particularly astrophysics plasma physics and controlled thermonuclear fusion laser physics atmospheric processes isotope separation radiation physics and chemistry and surface science In recent years a number of important advances have been made both on the experimental side and on the theoretical side On the experimental side these include absolute measurements of cross sections experiments using coincidence techniques the use of polarised beams and targets the development of very high energy resolution electron beams the use of synchrotron radiation sources and ion storage rings the study of laser assisted atomic collisions the interaction of super intense lasers with atoms and molecules and the increasing number of studies using positron beams

Polarization and Correlation Phenomena in Atomic Collisions Vsevolod V. Balashov, Alexei N. Grum-Grzhimailo, Nikolai M. Kabachnik, 2013-03-14 *Polarization and Correlation Phenomena in Atomic Collisions* A Practical Theory Course bridges the gap between traditional courses in quantum mechanics and practical investigations The authors goal is to guide students in training their ability to perform theoretical calculations of polarization and correlation characteristics of various processes in atomic collisions The book provides a concise description of the density matrix and statistical tensor formalism and presents a general approach to the description of angular correlation and polarization phenomena It illustrates an application of the angular momentum technique to a broad variety of atomic processes The book contains derivations of the most important expressions for observable quantities in electron atom and ion atom scattering including that for polarized beams and or polarized targets in photo induced processes autoionization and cascades of atomic transitions Spin polarization and angular distributions of the reaction products are described including the angular correlations in different types of coincidence measurements The considered processes exemplify the general approach and the number of examples can be easily extended by a reader The book supplies researchers both theoreticians and experimentalists with a collection of helpful formulae and tables and can serve as a reference book Based on a highly regarded course at Moscow State University and elsewhere the book provides real guidance on theoretical calculations of practical use

Supercomputing, Collision Processes, and Applications Kenneth L. Bell, Keith A. Berrington, Derrick S.F. Crothers, Alan Hibbert, Kenneth T. Taylor, 2006-04-18 Professor Philip G Burke CBE FRS formally retired on 30 September 1998 To recognise this occasion some of his colleagues friends and former students decided to hold a conference in his honour and to present this volume as a dedication to his enormous contribution to the theoretical atomic physics community The conference and this volume of the invited talks reflect very closely those areas with which he has mostly been associated and his influence internationally on the development of atomic physics coupled with a parallel growth in supercomputing Phil's wide range of interests include electron atom molecule collisions scattering of photons and electrons by molecules adsorbed on surfaces collisions involving oriented and chiral molecules and the development of non perturbative methods for studying multiphoton processes His development of the theory associated with such processes has enabled important advances to be made in our understanding of the associated physics the interpretation

of experimental data has been invaluable in application to fusion processes and the study of astrophysical plasmas observed by both ground and space based telescopes We therefore offer this volume as our token of affection and respect to Philip G Burke with the hope that it may also fill a gap in the literature in these important fields *Selected Topics on Electron Physics* D. Murray Campbell, Hans Kleinpoppen, 2012-12-06 In the spring of 1970 Peter Farago organised a three day conference on Polarised Electron Beams at Carberry Tower near Edinburgh Although the development of the gallium arsenide source which was to revolutionise the world of experimental polarised electron physics was still some years in the future the meeting provided an important forum for the exchange of ideas among theoreticians and experimentalists engaged in both high and low energy electron collision studies As soon as the decision had been taken to hold the 5th European Conference on Atomic and Molecular Physics in Edinburgh in 1995 it occurred to the editors of the present volume that it would be highly appropriate to mark the twenty fifth anniversary of the Carberry Tower Conference by organising an ECAMP satellite meeting in honour of Peter Farago The opportunity to pay tribute to Peter s many important contributions in the broad field of electron physics attracted colleagues from allover the world to the symposium which was held in the rooms of the Royal Society of Edinburgh on 31st March and 1st April 1995 Peter himself now Professor Emeritus at the University of Edinburgh was present throughout the meeting We were particularly happy to welcome back to Edinburgh many participants in the original Carberry Tower conference these included Professor P G Burke Professor J Kessler Professor E Reichert and Professor H C Siegmann whose review papers had been highlights of the 1970 meeting *Introduction to the Theory of Collisions of Electrons with Atoms and Molecules* S.P. Khare, 2012-12-06 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 *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 unforgettable 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

Density Matrix Theory and Applications Karl Blum, 2013-06-29 Quantum mechanics has been mostly concerned with those states of systems that are represented by state vectors In many cases however the system of interest is incompletely determined for example it may have no more than a certain probability of being in the precisely defined dynamical state characterized by a state vector Because of this incomplete knowledge a need for statistical averaging arises in the same sense as in classical physics The density matrix was introduced by J von Neumann in 1927 to describe statistical concepts in quantum mechanics The main virtue of the density matrix is its analytical power in the construction of general formulas and in the proof of general theorems The evaluation of averages and probabilities of the physical quantities characterizing a given system is extremely cumbersome without the use of density matrix techniques The representation of

quantum mechanical states by density matrices enables the maximum information available on the system to be expressed in a compact manner and hence avoids the introduction of unnecessary variables The use of density matrix methods also has the advantage of providing a uniform treatment of all quantum mechanical states whether they are completely or incompletely known Until recently the use of the density matrix method has been mainly restricted to statistical physics In recent years however the application of the density matrix has been gaining more and more importance in many other fields of physics

Progress In Experimental And Theoretical Studies Of Clusters Tamotsu Kondow, Fumitaka Mafune, 2003-07-07 The cluster which is an ensemble of two thousands of atoms or molecules has emerged as a completely new class of materials at the frontier of materials science The frontier of cluster science extends so rapidly that the map of the science is renewed day by day In order to provide basic knowledge and recent information on this growing field 14 world renowned scientists who are actively involved experimentally and theoretically in cluster science have written this book which is concise comprehensive suitable for students at both the undergraduate and the graduate level as well as people who work outside cluster science

Vacuum Ultraviolet Radiation Physics - Proceedings Of The 10th Vuv Conference F Wileymier, I Nenner, Y Petroff, 1993-10-16 When after three decades of research Singapore could produce its own water the little city state was said to have lost its vulnerability No longer would every policy have to bend at the knees for water survival It was finally time to celebrate liberty When did the same moment come in Bala's life Was it when in mid Atlantic he heard of his promotion as Controller of Posts Or was it when he was appointed by the President as member of the Parliamentary Elections Minority Committee Or was it at a moment of tragic loss when he realised he had nothing more to lose Singapore My Country tells M Bala Subramanion's story a second generation Indian who lost his father to the Death Railway witnessed Subhas Chandra Bose at the Padang and later emerged as not only a senior civil servant but the man behind multiple social interventions living in a fast evolving Singapore The histories of the man and his nation remain seamlessly intertwined each peppered with equal doses of endeavour ingenuity and a sheer will to survive

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

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