



**Physics of Atoms and Molecules**  
Series Editors: P. G. Burke and H. Kleinpoppen

# **ATOMIC PHOTOEFFECT**

**M. Ya. Amusia**

# Atomic Photoeffect Physics Of Atoms And Molecules

**Michael Ljungberg**



## **Atomic Photoeffect Physics Of Atoms And Molecules:**

Atomic Photoeffect M.Ya. Amusia, 2013-06-29 This book is devoted to the investigation of a rather prevalent process in nature interaction of atoms with electromagnetic radiation Primary attention is given to the low and intermediate photon energy region from tens to hundreds of electron volts It is in this region that the probability of photon absorption and photoionization is largest Data in this energy region are very interesting and useful in astrophysics and plasma physics solid state physics and quantum electronics and in a number of other branches of science and technical applications Formulae for hydrogen atom photoionization are given in almost all textbooks on quantum mechanics Together with the limited amounts of experimental data available up to the beginning of the sixties the formulae gave an impression of the completeness of the study of photoionization of the absolute clarity of the mechanism of the process and of the possibility of calculating rather easily its probability using the formulae **Introduction to the Theory of Laser-Atom Interactions** Marvin H.

Mittleman, 2013-11-21 In response to the explosion of theories and experiments since the appearance of the first edition the author has revised and expanded his basic text New sections include up to date discussions of multiphoton ionization and electron atom and atom atom scattering in laser fields reaffirming the work's position as the standard introduction to the field Theory of Electron—Atom Collisions Philip G. Burke, Charles J. Joachain, 2013-06-29 The authors aim to hone the

theory of electron atom and electron ion collisions by developing mathematical equations and comparing their results to the wealth of recent experimental data This first of three parts focuses on potential scattering and will serve as an introduction to many of the concepts covered in Parts II and III As these processes occur in so many of the physical sciences researchers in astrophysics atmospheric physics plasma physics and laser physics will all benefit from the monograph *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 **The Hanle Effect and Level-Crossing Spectroscopy** Giovanni

Moruzzi, Franco Strumia, 2013-11-11 I am most pleased and in a way I feel honored to write the Foreword for the book The

Hanle Effect and Level Crossing Spectroscopy which covers such a very wide range of applications not only in the initial areas of atomic and molecular physics but also in solid state physics solar physics laser physics and gravitational metrology To link these fields together in a coherent way has been the merit of the editors of the book who attracted most distinguished authors for writing the chapters In retrospect to Hanle s discovery of quantum mechanical coherence between two quantum states about 65 years ago this book demonstrates the enormous impact and central importance the effect has had and most vividly still has on modern physics On the other hand the concept of quantum mechanical coherence which is an outgrowth of the linear super position principle of quantum states has been evident through a considerable number of experimental methods beyond the original Hanle effect some of these methods were only recently discovered or applied and they have indeed revolutionized research fields such as atomic collision physics

**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

**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

**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 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 Polarization Bremsstrahlung V.N. Tsytovich, I.M. Oiringel, 2012-12-06 This book was written by a group of authors and provides a systematic discussion of questions related to bremsstrahlung in many particle systems A number of new results have recently been obtained in this area which require a fundamental revision of the previously existing traditional concepts of bremsstrahlung This applies both to complicated atoms containing a large number of electrons and to the additional bremsstrahlung in a system of many particles forming a medium In fact the traditional approach was rigorously applicable only either to isolated structureless particles e g to the emission of an electron on a proton or to particles radiating in the limit of extremely high frequencies Polarization effects either polarization of an atom itself by an incident particle or polarization of the medium surrounding an atomic particle have a significant effect in the practically important optical and x ray frequency ranges and sometimes even predominate The first effect has come to be known as polarization atomic or dynamic bremsstrahlung and the second as polarization transition bremsstrahlung The authors of this book use a single term polarization bremsstrahlung It seems that in contrast to earlier ideas on the subject bremsstrahlung during collisions of heavy incident particles with atoms is by no means small and is entirely caused by polarization effects **Atoms, Molecules and Photons** Wolfgang Demtröder, 2019-02-09 This introduction to Atomic and Molecular Physics explains how our present model of atoms and molecules has been developed over the last two centuries both by many experimental discoveries and from the theoretical side by the introduction of quantum physics to the adequate description of micro particles It illustrates the wave model of particles by many examples

and shows the limits of classical description The interaction of electromagnetic radiation with atoms and molecules and its potential for spectroscopy is outlined in more detail and in particular lasers as modern spectroscopic tools are discussed more thoroughly Many examples and problems with solutions are offered to encourage readers to actively engage in applying and adapting the fundamental physics presented in this textbook to specific situations Completely revised third edition with new sections covering all actual developments like photonics ultrashort lasers ultraprecise frequency combs free electron lasers cooling and trapping of atoms quantum optics and quantum information Handbook of Nuclear Medicine and Molecular Imaging for Physicists Michael Ljungberg, 2022-02-08 Mathematical modelling is an important part of nuclear medicine Therefore several chapters of this book have been dedicated towards describing this topic In these chapters an emphasis has been put on describing the mathematical modelling of the radiation transport of photons and electrons as well as on the transportation of radiopharmaceuticals between different organs and compartments It also includes computer models of patient dosimetry Two chapters of this book are devoted towards introducing the concept of biostatistics and radiobiology These chapters are followed by chapters detailing dosimetry procedures commonly used in the context of diagnostic imaging as well as patient specific dosimetry for radiotherapy treatments For safety reasons many of the methods used in nuclear medicine and molecular imaging are tightly regulated Therefore this volume also highlights the basic principles for radiation protection It discusses the process of how guidelines and regulations aimed at minimizing radiation exposure are determined and implemented by international organisations Finally this book describes how different dosimetry methods may be utilized depending on the intended target including whole body or organ specific imaging as well as small scale to cellular dosimetry This text will be an invaluable resource for libraries institutions and clinical and academic medical physicists searching for a complete account of what defines nuclear medicine The most comprehensive reference available providing a state of the art overview of the field of nuclear medicine Edited by a leader in the field with contributions from a team of experienced medical physicists chemists engineers scientists and clinical medical personnel Includes the latest practical research in the field in addition to explaining fundamental theory and the field's history **Springer Handbook of Atomic, Molecular, and Optical Physics** Gordon W. F. Drake, 2007-02-05 This Springer Handbook 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 Its 90 chapters written by about 120 authors all leaders in their respective disciplines together with a guide to the primary research literature It has been carefully edited to ensure a uniform coverage and style with extensive cross references It is intended to be both a source of information and inspiration for graduate students and other researchers new to the field 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

**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

**Electron Scattering** Colm T. Whelan, Nigel J. Mason, 2005-01-10 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 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 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 electro dynamic 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 Molecular Processes in Space Tsutomu Watanabe,1990-02-28 Like a river the progress of science has a tendency to run fast or slow Once the water meets a dam it may stop for a while but eventually it will flow over the top and run fast again In scientific research a breakthrough to overcome a similar barrier is often made by a small number of scientists or perhaps by a single person of special creativity extraordinary talent and unusual perseverance Through such individuals science can proceed in great strides No one can deny that Professor Kazuo Takayanagi is one of these special individuals who have played a leading role in the field of atomic and molecular physics as well as space physics This book is dedicated to Professor Takayanagi on the occasion of his retirement from the Institute of Space and Astronautical Science Professor Takayanagi was born in 1926 and grew up in Tomakomai in Hokkaido the northern island of Japan In his boyhood he was interested in natural sciences particularly astronomy On 5th February 1943 when he was attending secondary school a solar eclipse was seen in his town He organized a group of students from his school to observe the eclipse He still remembers the scene it grew so dark during the eclipse that two stars Vega and Arcturus could be seen After graduation from the University of Tokyo in 1948 he entered the graduate school there *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 instrumentation had not progressed to the point that measurements could be made in liquids more characteristic of biological materials **Scientific and Technical Aerospace Reports** ,1994-05 *Haphazard Reality: Half a Century of Science*



Hendrik B.G. Casimir, 2020-09-23 An outstanding scientific autobiography I remain impressed by its thoughtfulness and charm Steve K Lamoreaux American Journal of Physics A rich autobiography and history of atomic physics One is impressed by Casimir's memory for detail and zeal to find corroboration for the stories he tells And they are splendid tales Gamow's playful pranks in Copenhagen conversations with Lev Landau ardent revolutionary but no Marxist the tragedy of Ehrenfest who killed himself after shooting his hopelessly retarded son A charming idiosyncratic and meaningful account of events and personalities that changed physics Kirkus I myself read this book with fascination meeting old friends such as Gamow Landau Kramers and learning much more about them Also in the book are character sketches of those who made physics in the Netherlands such as Lorentz Kamerlingh Onnes and Ehrenfest the latter remembered with the greatest affection by the author Sir Nevill Mott Contemporary Physics The book contains a valuable entertaining and insightful collection of vignettes of many of the physicists Casimir has associated with Lorentz Ehrenfest Bohr Pauli with whom he studied Goudsmit Uhlenbeck Landau Gamov members of his own generation Kramers Gorter de Haas colleagues in Dutch academic circles Holst and Loupart colleagues at the Philips Laboratories Haphazard Reality also offers valuable insights into Dutch middle class culture and a rewarding overview of Dutch educational and scientific establishments Casimir is a master at deftly and sensitively conveying the psychological ambiance of his surroundings His description of the brilliant young theoretical physicists around Bohr in the early thirties conveys not only the style of doing physics but also delineates the issues addressed by outlining the content of their researches S S Schweber 4S Review Engaging reminiscences by an important Dutch physicist of conversations with the major contributors to 20th century physics An overly modest but otherwise balanced account of his own experiences and contributions from his early years at Leiden to his directorship of the Philips Laboratory The Antioch Review Haphazard Reality paints a vivid and insightful picture of the development of modern physics Steve K Lamoreaux Proceedings of the American Philosophical Society

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