

H. F. Beyer  
V. P. Shevelko  
(Eds.)

# Atomic Physics with Heavy Ions



Springer

# Atomic Physics With Heavy Ions Springer Series On Atomic Optical And Plasma Physics

**Roger Boudet**



## **Atomic Physics With Heavy Ions Springer Series On Atomic Optical And Plasma Physics:**

Atomic Physics with Heavy Ions Heinrich Beyer, Viatcheslav P. Shevelko, 2012-10-23 This book is devoted to one of the most active domains of atomic physics of heavy positive ions During the last 30 years this terrain has attracted enormous attention from both experimentalists and theoreticians On the one hand this interest is stimulated by rapid progress in the development of laboratory ion sources storage rings ion traps and methods for ion cooling In many laboratories a considerable number of complex and accurate experiments have been initiated challenging new frontiers Highly charged ions are used for investigations related to fundamental research and to more applied fields such as controlled nuclear fusion driven by heavy ions and its diagnostics ion surface interaction physics of hollow atoms x ray lasers x ray spectroscopy spectrometry of ions in storage rings and ion traps biology and medical therapy On the other hand the new technologies have stimulated theoretical investigations especially in developing QED theory relativistic many body techniques plasma kinetic modeling based on the Coulomb interactions of highly charged ions with photons and various atomic particles electrons atoms molecules and ions The idea of assembling this book matured while the editors were writing another book X Ray Radiation of Highly Charged Ions by H F Beyer H J Kluge and V P Shevelko Springer Berlin Heidelberg 1997 covering a broad range of x ray and other radiative phenomena central to atomic physics with heavy ions

**Basic Atomic Interactions of Accelerated Heavy Ions in Matter** Inga Tolstikhina, Makoto Imai, Nicolas Winckler, Viatcheslav Shevelko, 2018-02-28 This book provides an overview of the recent experimental and theoretical results on interactions of heavy ions with gaseous solid and plasma targets from the perspective of atomic physics The topics discussed comprise stopping power multiple electron loss and capture processes equilibrium and non equilibrium charge state fractions in penetration of fast ion beams through matter including relativistic domain It also addresses mean charge states and equilibrium target thickness in ion beam penetrations isotope effects in low energy electron capture lifetimes of heavy ion beams semi empirical formulae for effective cross sections The book is intended for researchers and graduate students working in atomic plasma and accelerator physics

**Introduction to the Physics of Highly Charged Ions** Heinrich F. Beyer, Viatcheslav P. Shevelko, 2016-04-19 Emphasizing a physical understanding with many illustrations Introduction to the Physics of Highly Charged Ions covers the major areas of x ray radiation and elementary atomic processes occurring with highly charged ions in hot laboratory and astrophysical plasmas Topics include light and ion sources spectroscopy atomic structure magnetic and **Ion-Atom Collisions** Michael Schulz, 2019-10-21 The few body problem FBP the essence of which is the Schrödinger equation is not solvable for more than two interacting particles Atomic collisions are ideally suited to study the FBP because the underlying force is essentially understood and because simple systems can be studied for which kinematically complete experiments are feasible The book would cover various experimental and theoretical approaches in atomic collision research

X-Ray Radiation of Highly Charged Ions Heinrich F. Beyer, H.-J.

Kluge,V.P. Shevelko,2013-03-09 The physics of highly charged ions continues to be one of the most active and interesting fields of atomic physics A large fraction of the characteristic radiation of such ions lies in the x ray region and its spectroscopy represents an important experimental tool The field of x ray spectroscopy grew directly from the discovery of x radiation by Wilhelm Conrad Rontgen in 1895 The early contributions to atomic physics that arose out of x ray spectroscopy are well documented and are the subject of many centennial events In the past the gross features of most x ray spectra in the hard x ray region have been accounted for on a hydrogenic model In many instances the gross spectral features recorded in the early days of x ray physics match those observed with state of the art techniques today and many of the early qualitative interpretations have remained unchanged It is in the details of the spectra that today's results are superior to those obtained many years ago and it is in the quantitative and accurate descriptions that today's predictions are better A rejuvenation of the field has occurred after the great achievements in the development of new ion sources for production of heavy ions with only one or few electrons The new tools available to the experimenter allow the exploration of new states of matter and allow us to challenge new frontiers in our theoretical understanding of atoms and their interactions with other particles     Atomic Processes in Basic and Applied Physics Viacheslav Shevelko,Hiro Tawara,2012-05-31 The book is a comprehensive edition which considers the interactions of atoms ions and molecules with charged particles photons and laser fields and reflects the present understanding of atomic processes such as electron capture target and projectile ionisation photoabsorption and others occurring in most of laboratory and astrophysical plasma sources including many photon and many electron processes The material consists of selected papers written by leading scientists in various fields     Fundamentals and Applications of Fourier Transform Mass Spectrometry Philippe Schmitt-Kopplin,Basem Kanawati,2019-08-11 Fundamentals and Applications of Fourier Transform Mass Spectrometry is the first book to delve into the underlying principles on the topic and their linkage to industrial applications Drs Schmitt Kopplin and Kanawati have brought together a team of leading experts in their respective fields to present this technique from many different perspectives describing at length the pros and cons of FT ICR and Orbitrap Numerous examples help researchers decide which instruments to use for their particular scientific problem and which data analysis methods should be applied to get the most out of their data Covers FT ICR MS and Orbitrap's fundamentals enhancing researcher knowledge Includes details on ion sources data processing chemical analysis and imaging Provides examples across the wide spectrum of applications including omics environmental chemical pharmaceutical and food analysis     *Advances in Quantum Chemistry* ,2024-01-22 Advances in Quantum Chemistry Volume 89 highlights new advances in the field with this new volume presenting interesting chapters written by an international board of authors Updates in this release include Scattering of e with Al Ni Cu Ag Pt and Au atoms including the relativistic effects at 1 eV Ei 1 MeV Chirped Pulse Control of Raman Coherence in Atoms and Molecules and The Quantum Mechanical Non adiabatic coupling Term as friction in the formation of DH2 Provides the authority and expertise of leading contributors from an

international board of authors Presents the latest release in Advances in Quantum Chemistry series Updated release includes the latest information on this timely topic

**Trapped Charged Particles: A Graduate Textbook With Problems And Solutions** Richard C Thompson, Niels Madsen, Martina Knoop, 2016-04-15 At Les Houches in January 2015 experts in the field of charged particle trapping came together for the Second Winter School on Physics with Trapped Charged Particles This textbook collates the lectures delivered there covering the fundamental physics of particle traps and the different types of applications of these devices Taken as a whole the book gives an overview of why traps for charged particles are important how they work their special features and limitations and their application in areas such as precision measurements mass spectrometry optical clocks plasma physics antihydrogen creation quantum simulation and quantum information processing Chapters from various world experts include those on the basic properties of Penning traps and RF traps as well as those covering important practical aspects such as vacuum systems detection techniques and different types of particle cooling including laser cooling Each individual chapter provides information and guidance on the application of the above methods Additionally each chapter is complemented by fully worked problems and solutions making Trapped Charged Particles perfect for advanced undergraduate and postgraduate students new to this topic

*Radiation Synthesis of Materials and Compounds* Boris Ildusovich Kharisov, Oxana Vasilievna Kharissova, Ubaldo Ortiz Mendez, 2016-04-19 Researchers and engineers working in nuclear laboratories nuclear electric plants and elsewhere in the radiochemical industries need a comprehensive handbook describing all possible radiation chemistry interactions between irradiation and materials the preparation of materials under distinct radiation types the possibility of damage of material

Atomic Physics with Heavy Ions Heinrich F. Beyer, 1999-04-15 This book is devoted to one of the most active domains of atomic physics atomic physics of heavy positive ions During the last 30 years this terrain has attracted enormous attention from both experimentalists and theoreticians On the one hand this interest is stimulated by rapid progress in the development of laboratory ion sources storage rings ion traps and methods for ion cooling In many laboratories a considerable number of complex and accurate experiments have been initiated challenging new frontiers Highly charged ions are used for investigations related to fundamental research and to more applied fields such as controlled nuclear fusion driven by heavy ions and its diagnostics ion surface interaction physics of hollow atoms x ray lasers x ray spectroscopy spectrometry of ions in storage rings and ion traps biology and medical therapy On the other hand the new technologies have stimulated elaborate theoretical investigations especially in developing QED theory relativistic many body techniques plasma kinetic modeling based on the Coulomb interactions of highly charged ions with photons and various atomic particles electrons atoms molecules and ions The idea of assembling this book matured while the editors were writing another book X Ray Radiation of Highly Charged Ions by H F Beyer H J Kluge and V P Shevelko Springer Berlin Heidelberg 1997 covering a broad range of x ray and other radiative phenomena central to atomic physics with heavy ions

The British National Bibliography Arthur James

Wells,2003      **American Journal of Physics** ,1981      Physics Briefs ,1992      Atomic Particles and Atom Systems Boris M. Smirnov,2018-07-10 This book presents physical units and widely used physical formulas which are given together with conversion factors in various units It includes frequently used atomic spectra and data for atoms ions and molecules as well as potential curves for diatomic molecules and provides numerical parameters for transport phenomena in gases and plasmas Further the rate constants of a number of processes in atmospheric ionized air have been added to this second edition of the book The numerical data has been selected from the information on atoms atomic systems atomic processes and models for atomic physics in this area and the numerical parameters of atoms ions and atom systems are included in periodical tables of elements      **American Book Publishing Record** ,1999      物理学辞典 (Japan),1972      物理学辞典 ,1989      **Plasma Atomic Physics** Frank B. Rosmej,Valery A. Astapenko,Valery S. Lisitsa,2021-09-06 Plasma Atomic Physics provides an overview of the elementary processes within atoms and ions in plasmas and introduces readers to the language of atomic spectra and light emission allowing them to explore the various and fascinating radiative properties of matter The book familiarizes readers with the complex quantum mechanical descriptions of electromagnetic and collisional processes while also developing a number of effective qualitative models that will allow them to obtain adequately comprehensive descriptions of collisional radiative processes in dense plasmas dielectronic satellite emissions and autoionizing states hollow ion X ray emissions polarized atoms and ions hot electrons charge exchange atomic population kinetics and radiation transport Numerous applications to plasma spectroscopy and experimental data are presented which concern magnetic confinement fusion inertial fusion laser produced plasmas and X ray free electron lasers interaction with matter Particular highlights include the development of quantum kinetics to a level surpassing the almost exclusively used quasi classical approach in atomic population kinetics the introduction of the recently developed Quantum F Matrix Theory QFMT to study the impact of plasma microfields on atomic populations and the Enrico Fermi equivalent photon method to develop the Plasma Atom where the response properties and oscillator strength distribution are represented with the help of a local plasma frequency of the atomic electron density Based on courses held by the authors this material will assist students and scientists studying the complex processes within atoms and ions in different kinds of plasmas by developing relatively simple but highly effective models Considerable attention is paid to a number of qualitative models that deliver physical transparency while extensive tables and formulas promote the practical and useful application of complex theories and provide effective tools for non specialist readers      *Subject Guide to Books in Print* ,2001

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