



Saddle Point Electrons In Slow Ionatom Collisions

E. R. Pike, Pierre C. Sabatier



Saddle Point Electrons In Slow Ionatom Collisions:

Saddle Point Electrons in Slow Ion-atom Collisions Marc Wybren Henricus Pieksma, 1993 Collision Processes and Excitation of UV Emission from Planetary Atmospheric Gases SV Avakyan, R N Ii'In, V M Lavrov, G N Ogurtsov, 2022-03-10

Over the past few decades the excitation and ionization of atmospheric gases has become an area of intense research. A large amount of data have been accumulated concerning the various elementary processes which occur when photons, electrons and ions collide with atoms and molecules. This scattered information has now been collected in a handbook for the first time and the authors give a critical analysis of relevant data. This book is a comprehensive and detailed study of the available information and is distinguished by the following outstanding features: the consideration of a large number of atmospheric constituents including H, O₂, H, N, O₂, N, O, O₂, O, CO, CO₂, H, O₂, HCl and some hydrocarbons; the maximum number of space particles including magnetospheric particles are considered as projectiles: photons, electrons, hydrogen atoms, protons and helium ions; the energy range under study corresponds to the real spectrum of cosmic fluxes from threshold values for elementary processes up to several thousand keV; the recommended values of cross sections obtained from analysis of the available experimental data are given in the handbook and their accuracy is estimated. These features make the handbook particularly valuable to specialists in the aeronomy of planets, comets and active perturbations as well as to experimentalists and theoreticians working in the fields of plasma physics, atomic and molecular physics, physics of the upper atmosphere, chemical physics, optics and spectroscopy.

Two-Center Effects in Ion-Atom Collisions Timothy J. Gay, Anthony F. Sterace, 1996

Annotation: Saddle point electrons, target and projectile electron interactions and highly charged projectiles and two-center descriptions are the main topics of the two dozen papers. Others review the contribution to atomic physics of M. Eugene Rudd, retiring from the University of Nebraska. Among the contributed papers are discussions of two-center effects in electron excitation, electron-plate impact distortions in electron spectroscopy and radial dose distributions in the delta-ray theory of track structure. Reproduced from typescripts. No subject index. Annotation c by Book News, Inc., Portland, Or.

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.

Classical Treatment of Collisions Between Ions and Atoms or Molecules Francois Frémont, 2021-12-08

Since the beginning of the twentieth century many experimental and theoretical works have been devoted to collisions between highly charged ions and atomic and molecular targets. It was realized that quantum mechanics is the only way a priori to describe such atomic phenomena. However, since quantum mechanics is very difficult to apply for collision systems with more than two particles, classical methods were very soon introduced and applied to simple collision systems and subsequently to more

complicated systems The results obtained by such classical methods were found to be surprisingly good and classical mechanics is now well established despite its approximations as a replacement for or competition with quantum mechanics in many cases In this book the author will focus on the development of classical methods for describing collisional and post collisional processes The results will be compared with those found using quantum mechanical models in order to demonstrate the ability of the classical approach to obtain many features and details of collision systems Electron Emission in Heavy Ion-Atom Collisions Nikolaus Stolterfoht,Robert D. DuBois,Roberto D. Rivaola,2013-06-29 Electron EM reviews the theoretical and experimental work of the last 30 years on continuous electron emission in energetic ion atom collisions High incident energies for which the projectile is faster than the mean orbital velocity of the active electron are considered Emphasis is placed on the interpretation of ionization mechanisms They are interpreted in terms of Coulomb centers associated with the projectile and target nuclear fields which strongly interact with the outgoing electron General properties of the two center electron emission are analyzed Particular attention is given to screening effects A brief overview of multiple ionization processes is also presented The survey concludes with a complete compilation of experimental studies of ionization cross sections **Dynamical Processes in Atomic and Molecular Physics** Gennadi Ogurtsov,Danielle Dowek,2012 Atomic and molecular physics underlie a basis for our knowledge of fundamental processes in nature and technology and in such applications as solid state physics chemistry and biology In recent years atomic and molecular physics has undergone a revolutionary change due to great achievements in computing and experimental techniques As a result it has become possible to obtain information both on atomic and molecular characteristics and on dynamics of atomic and molecular processes This e book highlights the present state of investigations in the field of atomic and molecular physics Recent theoretical developments as well as new discoveries and observations are discussed the Book should be of interest to students studying atomic and molecular physics and specialists in related fields of science and technology

Molecular Beams in Physics and Chemistry Bretislav Friedrich,Horst Schmidt-Böcking,2021-06-19 This Open Access book gives a comprehensive account of both the history and current achievements of molecular beam research In 1919 Otto Stern launched the revolutionary molecular beam technique This technique made it possible to send atoms and molecules with well defined momentum through vacuum and to measure with high accuracy the deflections they underwent when acted upon by transversal forces These measurements revealed unforeseen quantum properties of nuclei atoms and molecules that became the basis for our current understanding of quantum matter This volume shows that many key areas of modern physics and chemistry owe their beginnings to the seminal molecular beam work of Otto Stern and his school Written by internationally recognized experts the contributions in this volume will help experienced researchers and incoming graduate students alike to keep abreast of current developments in molecular beam research as well as to appreciate the history and evolution of this powerful method and the knowledge it reveals *Slow Heavy-Particle Induced Electron Emission from*

Solid Surfaces Hannspeter Winter, Joachim Burgdörfer, 2007-04-22 The emission of electrons from solid surfaces bombarded by slow neutral and ionized heavy particles atoms molecules is reviewed both theoretically and in the light of recent experimental studies by leading groups in the field The book integrates physics of ion beams surfaces and chemical physics and serves both as a reference work for researchers and a textbook for graduate students **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 *Physics of Ionized Gases* Damir Veža, 1995 *Physics of Ionized Gases* **Fundamental Processes of Atomic Dynamics** J.S.S. Briggs, H. Kleinpoppen, H.O. Lutz, 2012-12-06 This volume contains the lectures presented at the NATO Advanced study Institute Fundamental Processes of Atomic Dynamics held in Maratea Italy from September 20th to October 2nd 1987 The institute and this volume were conceived as a natural complement to previous institutes held in Maratea 1982 and in Santa Flavia 1984 whose proceedings are to be found in NATO ASI Series B vol 103 and 134 respectively The subject matter of these institutes was the study of the fundamental processes occurring in the interactions of atoms with photons electrons and heavy ions The aim has been to unify these processes in a coherent experimental and theoretical approach The present volume brings this approach up to date and contains in addition for contrast and variety a description of similar dynamical processes in the study of clusters and surfaces The institute was opened with a lecture by Joe Macek in which he summarised the current status of atomic collision research propounded the philosophy of a unified approach to structure fragmentation and collision and posed the outstanding questions in the field This lecture forms the introduction to this volume The subject matter was divided into experiment and theory with the lectures inter linked so that the one could reinforce the other The whole of the theoretical part of the institute was organised by Ugo Fano as an ongoing symposium **ERDA Energy Research Abstracts** ,1983 **Physics Briefs** ,1994 **Nuclear Science Abstracts** ,1976-06 *Energy Research*

Abstracts, 1990 *Collision Theory for Atoms and Molecules* Franco A. Gianturco, 2012-12-06 The NATO Advanced Study Institute on Collision Theory for Atoms and Molecules was made possible by the main sponsorship and the generous financial support of the NATO Scientific Affairs Division in Brussels Belgium Special thanks are therefore due to the late Dr Mario Di Lullo and to Dr Craig Sinclair of this Division who repeatedly advised us and kept us aware of administrative requirements The Institute was also assisted by the financial aid from the Scientific Committees for Chemistry and Physics of the Italian National Research Council CNR The search and selection of a suitable location one which participants would easily reach from any of Italy's main airports was ably aided by the Personnel of the Scuola Normale Superiore of Pisa and made possible by its Directorship Our thanks therefore go to its present director Prof L Radicati and to its past director Prof E Vesentini who first agreed to our use of their main building in Pisa and of their palatial facilities at the Palazzone in Cortona

Ionization of Solids by Heavy Particles Raul A. Baragiola, 2012-12-06 This book collects the papers presented at the NATO Advanced Research Workshop on Ionization of Solids by Heavy Particles held in Giardini Naxos Taormina Italy on June 1-5 1992 The meeting was the first to gather scientists to discuss the physics of electron emission and other ionization effects occurring during the interaction of heavy particles with condensed matter The central problem in the field is how to use observations of electron emission and final radiation damage to understand what happens inside the solid like excitation mechanisms the propagation of the electronic excitation along different pathways and surface effects The ARW began with a brief survey of the field stressing the unknowns It was pointed out that ionization theories can only address the very particular case of weak perturbations For this problem this meant high speed low charged projectiles a perturbation treatment of interactions with slow highly charged ions was later presented Only semi empirical models exist for velocities lower than the Fermi velocity in the solid which can be used to predict kinetic electron emission yields These models however do not address the basic questions about the mechanisms for electron excitation transport and escape through the surface layer

Scattering, Two-Volume Set E. R. Pike, Pierre C. Sabatier, 2001-10-09 Scattering is the collision of two objects that results in a change of trajectory and energy For example in particle physics such as electrons photons or neutrons are scattered off of a target specimen resulting in a different energy and direction In the field of electromagnetism scattering is the random diffusion of electromagnetic radiation from air masses is an aid in the long range sending of radio signals over geographic obstacles such as mountains This type of scattering applied to the field of acoustics is the spreading of sound in many directions due to irregularities in the transmission medium Volume I of Scattering will be devoted to basic theoretical ideas approximation methods numerical techniques and mathematical modeling Volume II will be concerned with basic experimental techniques technological practices and comparisons with relevant theoretical work including seismology medical applications meteorological phenomena and astronomy This reference will be used by researchers and graduate students in physics applied physics biophysics chemical physics medical physics acoustics geosciences optics mathematics

and engineering This is the first encyclopedic range work on the topic of scattering theory in quantum mechanics elastodynamics acoustics and electromagnetics It serves as a comprehensive interdisciplinary presentation of scattering and inverse scattering theory and applications in a wide range of scientific fields with an emphasis and details up to date developments Scattering also places an emphasis on the problems that are still in active current research The first interdisciplinary reference source on scattering to gather all world expertise in this technique Covers the major aspects of scattering in a common language helping to widening the knowledge of researchers across disciplines The list of editors associate editors and contributors reads like an international Who s Who in the interdisciplinary field of scattering

The Physics of Multiply and Highly Charged Ions F.J. Currell, 2013-11-11 Highly charged ions are the most chemically reactive species known to mankind This reactivity is due to the extremely large potential energy they posses This textbook deals with the wide range of interactions which occur when such ions interact with other forms of matter especially solid surfaces and gasses Particular emphasis is placed on situations where the kinetic energy associated with the interactions is small so that the effects of the high potential energy are most apparent Experimental and theoretical techniques of investigation are covered in addition to the findings they produce The treatment aims to be instructive to the beginner while leading on to a level where the newest findings are reviewed As such the text is suitable for final year undergraduates postgraduates or experienced researchers

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