

Springer Series on Atomic, Optical, and Plasma Physics

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# **Resonance Phenomena in Electron-Atom Collisions**



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# Resonance Phenomena In Electron Atom Collisions Springer Series On Atoms Plasmas Volume 11

**Walter F. Huebner, W. David Barfield**



## **Resonance Phenomena In Electron Atom Collisions Springer Series On Atoms Plasmas Volume 11:**

*Resonance Phenomena in Electron-atom Collisions* V. I. Lend'el, Viacheslav Tadeushevich Navrotsky, Emel'ian Petrovich Sabad, 1992 Describes the scattering of electrons by atoms and atomic ions This scattering is one of the fundamental processes in plasma physics nuclear fusion quantum chemistry astrophysics and the physics of the upper atmosphere

Film Deposition by Plasma Techniques Mitsuharu Konuma, 2012-12-06 Properties of thin films depend strongly upon the deposition technique and conditions chosen In order to achieve the desired film optimum deposition conditions have to be found by carrying out experiments in a trial and error fashion with varying parameters The data obtained on one growth apparatus are often not transferable to another This is especially true for film deposition processes using a cold plasma because of our poor understanding of the mechanisms Relatively precise studies have been carried out on the role that physical effects play in film formation such as sputter deposition However there are many open questions regarding processes that involve chemical reactions for example reactive sputter deposition or plasma enhanced chemical vapor deposition Much further research is required in order to understand the fundamental deposition processes A systematic collection of basic data some of which may be readily available in other branches of science for example reaction cross sections for gases with energetic electrons is also required The need for plasma deposition techniques is felt strongly in industrial applications because these techniques are superior to traditional thin film deposition techniques in many ways In fact plasma deposition techniques have developed rapidly in the semiconductor and electronics industries Fields of possible application are still expanding A reliable plasma reactor with an adequate in situ system for monitoring the deposition conditions and film properties must be developed to improve reproducibility and productivity at the industrial level

**Multiphoton Processes in Atoms** Nikolai B. Delone, Vladimir P. Krainov, 2012-12-06 Multiphoton ionization of atoms in intense laser light fields is gaining ground as a spectroscopic diagnostic tool In this volume Delone and Krainov present their and others theoretical description of the process occurring in atoms under conditions of multi photon impacts in particular the shift broadening and mixing of electronic states which complicate the interpretation of spectra The topics of individual chapters include tunneling ionization above threshold ionization ionization of multiply charged ions resonance enhanced ionization super intense radiation fields and properties of Rydberg states in strong fields

*Interference of Atomic States* Evgenii Borisovich Aleksandrov, Mariia Pavlovna Chaika, Gennadii Ivanovich Khvostenko, 1993

**Advances in Atomic, Molecular, and Optical Physics**, 2011-08-09 Volume 55 of the Advances in Atomic Molecular and Optical Physics Series contains seven contributions covering a diversity of subject areas in atomic molecular and optical physics In their contribution Stowe Thorpe Peter Ye Stalnaker Gerginov and Diddams explore recent developments in direct frequency comb spectroscopy Precise phase coherence among successive ultrashort pulses of a frequency comb allows one to probe fast dynamics in the time domain and high resolution structural information in the frequency domain for both atoms and

molecules The authors provide a detailed review of some of the current applications that exploit the unique features of frequency comb spectroscopy and discuss its future directions Yurvsky Olshanii and Weiss review theory and experiment of elongated atom traps that confine ultracold gases in a quasi one dimensional regime Under certain conditions these quasi one dimensional gases are well described by integrable one dimensional many body models with exact quantum solutions Thermodynamic and correlation properties of one such model that has been experimentally realized are reviewed DePaola Morgenstein and Andersen discuss magneto optical trap recoil ion momentum spectroscopy MOTRIMS exploring collisions between a projectile and target resulting in charged target fragments MOTRIMS combines the technology of laser cooling and trapping of target atoms with the momentum analysis of the charged fragments that recoil from the target The authors review the different MOTRIMS experimental approaches and the spectroscopic and collisional investigations performed so far Safronova and Johnson give an overview of atomic many body perturbation theory and discuss why extensions of the theory are needed They present all order results based on a linearized version of coupled cluster expansions and apply the theory to calculations of energies transition matrix elements and hyperfine constants Another contribution on atomic theory authored by Fischer explores the advantages of expanding the atomic radial wave functions in a B spline basis The differential equations are replaced by non linear systems of equations and the problems of orthogonality requirements can be dealt with using projection operators Electron ion collisional processes are analyzed by Mueller including descriptions of the experimental techniques needed to obtain cross section data and typical values for these cross sections The present status of the field is discussed in relation to the detailed cross sections and rate coefficients that are needed for understanding laboratory or astrophysical plasmas Finally Duan and Monroe review ways to achieve scalable and robust quantum communication state engineering and quantum computation Using radiation and atoms ions or atomic ensembles they show that they can construct scalable quantum networks that are inherently insensitive to noise Progress in experimental realization of their proposals is outlined International experts Comprehensive articles New developments

**Forthcoming Books** Rose Arny,1993      **Whitaker's Books in Print** ,1998      **Autographed pamphlets and offprints** ,1900

**International Books in Print** ,1986      Physics Briefs ,1993      *Opacity* Walter F. Huebner,W. David Barfield,2014-01-02 This book covers all aspects of opacity and equations of state for gases plasmas and dust The discussion emphasizes the continuous transformation of the equilibrium compositions of these phases as a function of temperature and density      **Plasma and Spot Phenomena in Electrical Arcs** Isak Beilis,2020-09-05 This book is devoted to a thorough investigation of the physics and applications of the vacuum arc a highly ionized metallic plasma source used in a number of applications with emphasis on cathode spot phenomena and plasma formation The goal is to understand the origins and behavior of the various complex and sometimes mysterious phenomena involved in arc formation such as cathode spots electrode vaporization and near electrode plasma formation The book takes the reader from a model of dense cathode plasma

based on charge exchange ion atom collisions through a kinetic approach to cathode vaporization and on to metal thermophysical properties of cathodes This picture is further enhanced by an in depth study of cathode jets and plasma acceleration the effects of magnetic fields on cathode spot behavior and electrical characteristics of arcs and cathode spot dynamics The book also describes applications to space propulsion thin film deposition laser plasma generation and magnetohydrodynamics making this comprehensive and up to date volume a valuable resource for researchers in academia and industry

**Books in Series** ,1985 Vols for 1980 issued in three parts Series Authors and Titles Scientific and Technical Books and Serials in Print ,1984 **Subject Guide to Books in Print** ,1991 Scientific and Technical Books in Print ,1972 **Verzeichnis lieferbarer Bücher** ,1988 Resonance Phenomena in Electron-Atom Collisions Vladimir I. Lengyel,Vyacheslav T. Navrotsky,Emil P. Sabad,1992 Resonance phenomena have been the topic of a number of reviews and separate questions have been elucidated in some monographs But the absence of a balanced integral account of the current status of the problem hinders the orientation in this area The present book is an attempt to fill this gap The results of investigations of the resonance scattering of electrons by atoms and ions are considered We compare different theoretical methods of description of resonance phenomena for example the close coupling method R matrix method and diagonalization method Special attention is paid to the analysis of the accuracy of the theoretical calculations and experimental data Besides the conventional analytical solutions of a multiparticle problem more recently developed methods made possible by high speed computers are discussed in detail Several computer programs are scrutinized This book is intended for physicists engaged in the problems of electronic and atomic collisions and related areas such as plasma and laser physics It should be of interest to university students and postgraduates *American Book Publishing Record* ,1992

Atomic, Molecular, and Optical Physics Handbook Gordon W.F. Drake,1996-02-13 This text provides a summary of the key ideas techniques and research results in the field of atomic molecular and optical physics It is intended to be of interest to all physicians especially in condensed matter and chemical physics and engineers as

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