



ASTROPHYSICS AND SPACE PHYSICS REVIEWS

Edited by

R. A. SUNYAEV

Institute for Space Research,
Russian Academy of Sciences, Moscow

A Perturbed Atom

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Vladimir Krainov, Boris M. Smirnov



Perturbed Atom:

Atomic and Molecular Radiative Processes Vladimir Krainov, Boris M. Smirnov, 2019-07-03 This book describes selected problems in contemporary spectroscopy in the context of quantum mechanics and statistical physics It focuses on elementary radiative processes involving atomic particles atoms molecules ions which include radiative transitions between discrete atomic states the photoionization of atoms photorecombination of electrons and ions bremsstrahlung photodissociation of molecules and photoattachment of electrons to atoms In addition to these processes the transport of resonant radiation in atomic gases and propagation of infrared radiation in molecular gases are also considered The book subsequently addresses applied problems such as optical pumping cooling of gases via laser resonance radiation light induced drift of gas atoms photoresonant plasma reflection of radio waves from the ionosphere and detection of submillimeter radiation using Rydberg atoms Lastly topical examples in atmospheric and climate change science are presented such as lightning channel glowing emission of the solar photosphere and the greenhouse phenomenon in the atmospheres of the Earth and Venus Along with researchers both graduate and undergraduate students in atomic molecular and atmospheric physics will find this book a useful and timely guide

[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

Atomic & Molecular

Symmetry Groups and Chemistry S.C. Rakshit, 2021-08-18 Atomic Symmetry Groups being continuous groups are just a fallout of the Lie Groups and Lie Algebras Atoms are structurally simpler than molecules but atomic symmetry is more complex than molecular symmetry In quantum mechanics we study atoms first and then the molecules In symmetry studies we do just the reverse In this book apart from theories the description of both the symmetry groups atomic and molecular are attended with adequate applications Please note Taylor Francis does not sell or distribute the Hardback in India Pakistan Nepal Bhutan Bangladesh and Sri Lanka **Fundamentals of Ionized Gases** Boris M. Smirnov, 2012-09-19 A

comprehensive and readily accessible work for studying the physics of ionized gases based on Physics of Ionized Gases The focus remains on fundamentals rather than on the details required for interesting but difficult applications such as magnetic confinement fusion or the phenomena that occur with extremely high intensity short pulse lasers However this new work benefits from much rearranging of the subject matter within each topic resulting in a more coherent structure There are also some significant additions many of which relate to clusters while other enlarged sections include plasmas in the atmosphere and their applications In each case the emphasis is on a clear and unified understanding of the basic physics that underlies all plasma phenomena Thus there are chapters on plasma behavior from the viewpoint of atomic and molecular physics as well as on the macroscopic phenomena involved in physical kinetics of plasmas and the transport of radiation and of charged particles within plasmas With this grounding in the fundamental physics of plasmas the notoriously difficult subjects of nonlinear phenomena and of instabilities in plasmas can then be treated with comprehensive clarity The work is rounded off with appendices containing information and data of great importance and relevance that are not easily found in other books Valuable reading for graduate and PhD physics students and a reference for researchers in low temperature ionized gases plasma processing edge region fusion plasma physics and atmospheric plasmas The Theory of Spectra and Atomic

Constitution: Three Essays Niels Bohr, 2024-02-02 Embark on a journey through the foundational principles of atomic physics with The Theory of Spectra and Atomic Constitution Three Essays by Niels Bohr Explore the revolutionary insights and groundbreaking theories that laid the groundwork for modern quantum mechanics As Bohr's seminal essays unfold delve into the intricacies of atomic structure and spectral analysis Follow along as Bohr challenges traditional models of atomic behavior and introduces a new framework that revolutionized our understanding of the microscopic world But amidst the exploration of atomic constitution lies a fundamental question How do we reconcile the complexities of atomic spectra with our classical understanding of physics Bohr's pioneering work provides the answer offering a glimpse into the quantum realm where particles defy conventional logic Experience the thrill of scientific discovery as Bohr's essays shed light on the mysteries of the atom and its behavior Let his insights inspire you to question the nature of reality and embrace the strange and wonderful world of quantum mechanics Are you ready to journey into the heart of atomic physics with Niels Bohr Join Bohr as he unveils the secrets of atomic spectra and atomic constitution paving the way for a new era of scientific inquiry Let

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The Correspondence Principle (1918 - 1923) J.R. Nielsen, 2013-10-22 During this period Bohr's researches had a double aim to develop a consistent and adequate quantum theory and to explain the structures and properties of the elements of the periodic system The Correspondence Principle contains the papers and manuscripts dealing mainly with the elaboration of the general quantum theory

Quantum Theory (Concise Edition) Niels Bohr, Max Planck, 2024-04-09 Bohr and Planck helped shape the cultural landscape of the world today Now their work is available here in a digestible pocket format for the modern reader A concise uncluttered edition for the modern reader with a new introduction Quantum Theory contains two foundational works of quantum research from the early years of the 20th Century representing breakthroughs in science that radically altered the landscape of modern knowledge Quantum Theory of Line Spectra by Niels Bohr and The Origin and Development of the Quantum Theory by Max Planck The FLAME TREE Foundations series features core publications which together have shaped the cultural landscape of the modern world with cutting edge research distilled into pocket guides designed to be both accessible and informative

Theory of Gas Discharge Plasma Boris M. Smirnov, 2014-11-17 This book presents the theory of gas discharge plasmas in a didactical way It explains the processes in gas discharge plasmas A gas discharge plasma is an ionized gas which is supported by an external electric field Therefore its parameters are determined by processes in it The properties of a gas discharge plasma depend on its gas component types of external fields their geometry and regimes of gas discharge Fundamentals of a gas discharge plasma include elementary radiative and transport processes which are included in its kinetics influence They are represented in this book together with the analysis of simple gas discharges These general principles are applied to stationary gas discharge plasmas of helium and argon The analysis of such plasmas under certain conditions is theoretically determined by numerical plasma parameters for given regimes and conditions

Electronic Structure of Solids: Configuration interaction in solids John Clarke Slater, 1954

Technical Report Massachusetts Institute of Technology. Solid-State and Molecular Theory Group, 1953

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Electron spin resonance spectra of methyl substituted naphthalene... Cornelis De Waard, 1964

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