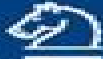


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Egidio Landi Degl'Innocenti

Atomic Spectroscopy and Radiative Processes

 Springer

Atomic Spectroscopy And Radiative Processes Unitext For Physics

**Vladimir Pavlovich Kraĭnov, Howard
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Atomic Spectroscopy And Radiative Processes Unisex For Physics:

Atomic Spectroscopy and Radiative Processes Egidio Landi Degl'Innocenti, 2014-06-24 This book describes the basic physical principles of atomic spectroscopy and the absorption and emission of radiation in astrophysical and laboratory plasmas It summarizes the basics of electromagnetism and thermodynamics and then describes in detail the theory of atomic spectra for complex atoms with emphasis on astrophysical applications Both equilibrium and non equilibrium phenomena in plasmas are considered The interaction between radiation and matter is described together with various types of radiation e g cyclotron synchrotron bremsstrahlung Compton The basic theory of polarization is explained as is the theory of radiative transfer for astrophysical applications Atomic Spectroscopy and Radiative Processes bridges the gap between basic books on atomic spectroscopy and the very specialized publications for the advanced researcher it will provide under and postgraduates with a clear in depth description of theoretical aspects supported by practical examples of applications

Probabilistic Models of Cosmic Backgrounds Anatoliy Malyarenko, 2024-06-30 Combining research methods from various areas of mathematics and physics Probabilistic Models of Cosmic Backgrounds describes the isotropic random sections of certain fiber bundles and their applications to creating rigorous mathematical models of both discovered and hypothetical cosmic backgrounds Previously scattered and hard to find mathematical and physical theories have been assembled from numerous textbooks monographs and research papers and explained from different or even unexpected points of view This consists of both classical and newly discovered results necessary for understanding a sophisticated problem of modelling cosmic backgrounds The book contains a comprehensive description of mathematical and physical aspects of cosmic backgrounds with a clear focus on examples and explicit calculations Its reader will bridge the gap of misunderstanding between the specialists in various theoretical and applied areas who speak different scientific languages The audience of the book consists of scholars students and professional researchers A scholar will find basic material for starting their own research A student will use the book as supplementary material for various courses and modules A professional mathematician will find a description of several physical phenomena at the rigorous mathematical level A professional physicist will discover mathematical foundations for well known physical theories *Radiative Processes in Atomic Physics*

Vladimir Pavlovich Kraĭnov, Howard Reiss, 1997-08 This book offers advanced students and researchers an up to date quantum treatment of the interaction of atoms with electromagnetic radiation Problems and solutions are used to develop concepts terminology and the principal results of the quantum theory of radiative processes in atoms Concepts covered include radiative transitions between discrete states in atomic systems atomic photoprocesses involving free particles coherent phenomena in radiative transitions extensive treatment of line broadening mechanisms atoms in strong fields and theory of angular momentum *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

Atomic Spectra and Radiative Transitions I. I. Sobelman, 2014-01-15

Atomic Spectra and Radiative Transitions Igor I. Sobelman, 2012-12-06 Atomic Spectra and Radiative Transitions covers the systematics of atomic spectra continuous spectrum radiation and the excitation of atoms This second edition has additional chapters on relativistic corrections in the spectra of highly charged ions which rounds off the previous treatment Extensive tables of oscillator strengths both dipole and quadrupole probabilities and cross sections of radiative transitions complete this textbook making it invaluable also as a reference work

Atomic Radiative Processes Peter R. Fontana, 2012-12-02 Atomic Radiative Processes provides a unified treatment of the theory of atomic radiative processes Fourier transforms are used to obtain solutions of time dependent Schrödinger equations and coupled differential equations are transformed to coupled linear equations that in most cases can be readily solved This book consists of nine chapters and begins with an overview of some of the properties of the classical field and its interaction with particles focusing on those aspects needed for a better understanding of quantum theory The Hamiltonian formalism is used to quantize the field and the density of states of the radiation field is considered The following chapters focus on a few Fourier transform techniques and their application to such areas as coherence properties of the field and amplitude and intensity correlations the theory of angular momentum the properties of irreducible tensors quantization of the radiation field and photon states The interaction of a two level atom with single modes of the radiation field is also discussed along with spontaneous emission and decay processes the evolution of coupled atomic states the frequency distribution of emitted radiation and radiative excitation and fluorescence This monograph is intended for students and researchers in pure and applied physics

Theoretical Atomic Spectroscopy Zenonas Rudzikas, 2007-07-26 This monograph presents a complete guide to the theory of modern spectroscopy of atoms Atomic spectroscopy continues to be one of the most important subjects of contemporary physics The book describes the contemporary state of the theory of many electron atoms and ions the peculiarities of their structure and spectra the processes of their interaction with radiation and some of the applications of

atomic spectroscopy It contains a large number of new results which have been published mainly in Russian and are therefore almost unknown to western scientists Primarily a reference for researchers and graduate students in atomic physics and physical chemistry this work will also be of value to physicists and chemists in other areas who use spectroscopy in their work ATOMIC SPECTRA AND RADIATION PROCESSES- CONFERENCE- PAPERS AND ABSTRACTS- INSTITUTE OF PHYSICS- PHYSICAL SOCIETY. , *Theoretical Atomic Spectroscopy* Zenonas Bronislavovich Rudzikas,1997

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