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Atomic Spectroscopy and Radiative Processes

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Atomic Spectroscopy And Radiative Processes Unitext For Physics

I. I. Sobelman



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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 *Physics Briefs*, 1985

ATOMIC SPECTRA AND RADIATION PROCESSES- CONFERENCE- PAPERS AND ABSTRACTS- INSTITUTE OF PHYSICS- PHYSICAL SOCIETY. , *Atomic Spectra and Radiative Transitions* I. I. Sobelman, 2014-01-15 **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 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 *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 *Collisional and Radiative Processes in Atomic Spectra* John Hedley, Newcastle upon Tyne Univ. (GB), University of Newcastle upon Tyne. Department of Physics, 1995 **Theoretical Atomic Spectroscopy** Zenonas Bronislavovich Rudzikas, 1997 *Atomic and Molecular Spectroscopy* Sune Svanberg, 2012-12-06 Atomic and molecular spectroscopy has provided basic information leading to the development of quantum mechanics and to the understanding of the building blocks of matter It continues to provide further insight into the statics and dynamics of the microcosmos and provides the means for testing new concepts and computational methods The results of atomic and molecular spectroscopy are of great importance in astrophysics plasma and laser physics The rapidly growing field of spectroscopic applications has made considerable impact on many disciplines including medicine environmental protection chemical processing and energy research In particular the techniques of electron and laser spectroscopy the subjects of the 1981 Nobel prize in physics have contributed much to the analytical potential of spectroscopy This textbook on Atomic and Molecular Spectroscopy has been prepared to provide an overview of modern spectroscopic methods It is intended to serve as a text for a course on the subject for final year undergraduate physics students or graduate students It should also be useful for students of astrophysics and chemistry The text has evolved from courses on atomic and molecular spectroscopy given by the author since 1975 at Chalmers University of Technology and at the Lund Institute of Technology References are given to important books and review articles which allow more detailed studies of different aspects of atomic and molecular spectroscopy No attempt has been made to cover all important references nor have priority aspects been systematically considered *Spectroscopy* Dudley Williams, 1976 Introduction Theory of radiation and radiative transitions Nuclear and atomic spectroscopy *Introduction to the Theory of Atomic Spectra* I. I. Sobel'man, 2016-04-20 Introduction to the Theory of Atomic Spectra is a systematic presentation of the theory of atomic spectra based on the modern system of the theory of angular momentum Many questions which are of interest from the point of view of using spectroscopic methods for investigating various physical phenomena including continuous spectrum radiation excitation of atoms and spectral line broadening are discussed This volume consists of 11 chapters organized into three sections After a summary of elementary information on atomic spectra including the hydrogen spectrum and the spectra of multi electron atoms the reader is methodically introduced to angular momentum systematics of the levels of multi electron atoms and hyperfine structure of spectral lines Relativistic corrections are also given consideration with particular reference to the use of the Dirac equation to determine the stationary states of an electron in an arbitrary electromagnetic field In addition the book explores the Stark

effect and the Zeeman effect the interaction between atoms and an electromagnetic field and broadening of spectral lines The final chapter is devoted to the problem of atomic excitation by collisions This book is intended for advanced course university students postgraduate students and scientists working on spectroscopy and spectral analysis and also in the field of theoretical physics

Atomic Spectra W. R. Hindmarsh, 2013-10-22 Atomic Spectra compiles papers on the highlighted developments in the atomic spectra This book discusses regularities in spectra emitted by monatomic gases that lead to an understanding of the structure of atoms and discovery of the principles that govern the behavior of matter on the atomic scale This compilation includes Rydberg's famous account of the series of spectral lines Weisskopf and Wigner's papers on natural line width and Bethe's study on the Lamb shift of energy levels Papers dealing with the spectra of atoms with more than two electrons in the valence shell and continuous spectra of atoms are not included This publication is useful to students intending to gain knowledge on the atomic spectra

Atomic Spectroscopy K.P. Rajappan Nair, 2019-06-06 Spectroscopy is an indispensable tool in understanding physical and chemical structure and today very sophisticated spectroscopic instruments are available with modern data processing techniques This book covers the elementary and basic aspects of atomic spectroscopy like Bohr's theory and atomic physics up to the latest developments including laser cooling Bose Einstein condensates and atom lasers Spectroscopy plays a major role in every field of science and this book would be valuable for physicists chemists and biologists

Introduction to the Theory of Atomic Spectra Igor' Il'ich Sobel'man, 1967 The book is devoted to a systematic presentation of the physical bases and the theory of atomic spectroscopy The presentation is based on the modern theory of angular moments There is also a systematic examination of the problems of excitation and radiation of atoms These problems are of interest from the point of view of the use of spectroscopic methods in investigating various physical phenomena

Author

Progress in Atomic Spectroscopy W. Hanle, 2013-06-29 W HANLE and H KLEINPOPPEN In 1919 in the first edition of *Atombau und Spektrallinien* Sommerfeld referred to the immense amount of information which had been accumulated during the first period of 60 years of spectroscopic practice Sommerfeld emphasized that the names of Planck and Bohr would be connected forever with the efforts that had been made to understand the physics and the theory of spectral lines Another period of almost 60 years has elapsed since the first edition of Sommerfeld's famous monograph As the editors of this monograph *Progress in Atomic Spectroscopy* we feel that the present period is best characterized by the large variety of new spectroscopic methods that have been invented in the last decades Spectroscopy has always been involved in the field of research on atomic structure and the interaction of light and atoms The development of new spectroscopic methods i.e. new as compared to the traditional optical methods has led to many outstanding achievements which together with the increase of activity over the last decades appear as a kind of renaissance of atomic spectroscopy

Progress in Atomic Spectroscopy W. Hanle, 2013-11-11 H J BEYER AND H KLEINPOPPEN During the preparation of Parts A and B of *Progress in Atomic Spectroscopy* a few years ago it soon became obvious that a comprehensive review and

description of this field of modern atomic physics could not be achieved within the limitations of a two volume book While it was possible to include a large variety of spectroscopic methods inevitably some fields had to be cut short or left out altogether Other fields have developed so rapidly that they demand full cover in an additional volume One of the major problems already encountered during the preparation of the first volumes was to keep track of new developments and approaches which result in spectroscopic data We have to look far beyond the area of traditional atomic spectroscopy since methods of atomic and ion collision physics nuclear physics and even particle physics all make important contributions to our knowledge of the static and dynamical state of atoms and ions and thereby greatly add to the continuing fascination of a field of research which has given us so much fundamental knowledge since the middle of the last century In this volume we have tried to strike a balance between contributions belonging to the more established fields of atomic structure and spectroscopy and those fields where atomic spectroscopy overlaps with other areas

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