



Hanle Effect And Level Crossing Spectroscopy

Eougenious L. Ivchenko, Grigory Pikus



Hanle Effect And Level Crossing Spectroscopy:

The Hanle Effect and Level-Crossing Spectroscopy Giovanni Moruzzi, Franco Strumia, 2013-11-11 I am most pleased and in a way I feel honored to write the Foreword for the book *The Hanle Effect and Level Crossing Spectroscopy* which covers such a very wide range of applications not only in the initial areas of atomic and molecular physics but also in solid state physics solar physics laser physics and gravitational metrology To link these fields together in a coherent way has been the merit of the editors of the book who attracted most distinguished authors for writing the chapters In retrospect to Hanle's discovery of quantum mechanical coherence between two quantum states about 65 years ago this book demonstrates the enormous impact and central importance the effect has had and most vividly still has on modern physics On the other hand the concept of quantum mechanical coherence which is an outgrowth of the linear superposition principle of quantum states has been evident through a considerable number of experimental methods beyond the original Hanle effect some of these methods were only recently discovered or applied and they have indeed revolutionized research fields such as atomic collision physics

The Hanle Effect And Level-crossing Spectroscopy G. Moruzzi, *Laser Spectroscopy* Wolfgang Demtröder, 2008-07-23 Keeping abreast of the latest techniques and applications this new edition of the standard reference and graduate text on laser spectroscopy has been completely revised and expanded While the general concept is unchanged the new edition features a broad array of new material This new edition has been completely revised especially the chapters on non linear spectroscopy ion trapping ultra short laser pulses and new developments Fifty new figures illustrate the newest developments and results The author is one of the most renowned experts in this area and no other book with this broad scope is available

Laser Spectroscopy 2 Wolfgang Demtröder, 2015-01-07 Keeping abreast of the latest techniques and applications this new edition of the standard reference and graduate text on laser spectroscopy has been completely revised and expanded While the general concept is unchanged the new edition features a broad array of new material e.g. ultrafast lasers atto and femto second lasers coherent matter waves Doppler free Fourier spectroscopy interference spectroscopy quantum optics and gravitational waves and still more applications in chemical analysis medical diagnostics and engineering

The Physics of Atoms and Quanta Hermann Haken, Hans Christoph Wolf, 2006-05-24 The highly positive affirmation and wide reception that this book continues to receive from professors and students alike is the occasion for this 7th edition Once again we have included a number of valuable suggestions for improvements which we address as appropriate In addition we refer to a number of developments in atomic physics Of these new developments in regard to exotic atoms we mention antihydrogen in particular because fundamental experiments in matter and antimatter can be expected in the future Furthermore we have inserted a chapter on the behaviour of atoms in strong electrical fields Experiments with corresponding lasers could only recently be realized We thank our Jenaer colleague R Sauerbrey for his contribution of this chapter We have also included a new chapter on the behaviour of the hydrogen atom in strong magnetic fields The results

are of profound interest for two very different fields of physics on the one hand according to classical physics one expects chaotic behaviour from Rydberg atoms in magnetic fields that can be created in the laboratory thus an association can be drawn to aspects of chaos theory and the problems of quantum chaos On the other hand the very strong fields necessary for low quantum numbers are realized in the cosmos in particular with white dwarfs and neutron stars

Atomic and Quantum Physics Hermann Haken, Hans C. Wolf, 2012-12-06 Atomic physics and its underlying quantum theory are the point of departure for many modern areas of physics astrophysics chemistry biology and even electrical engineering This textbook provides a careful and eminently readable introduction to the results and methods of empirical atomic physics The student will acquire the tools of quantum physics and at the same time learn about the interplay between experiment and theory A chapter on the quantum theory of the chemical bond provides the reader with an introduction to molecular physics Plenty of problems are given to elucidate the material The authors also discuss laser physics and nonlinear spectroscopy incorporating latest experimental results and showing their relevance to basic research Extra items in the second edition include solutions to the exercises derivations of the relativistic Klein Gordon and Dirac equations a detailed theoretical derivation of the Lamb shift a discussion of new developments in the spectroscopy of inner shells and new applications of NMR spectroscopy for instance tomography

Atomic, Molecular, and Optical Physics: Atoms and Molecules, 1996-05-16 Combined with the other two volumes this text is a comprehensive treatment of the key experimental methods of atomic molecular and optical physics as well as an excellent experimental handbook for the field The wide availability of tunable lasers in the past several years has revolutionized the field and led to the introduction of many new experimental methods that are covered in these volumes Traditional methods are also included to ensure that the volumes will be a complete reference source for the field

High Resolution Spectroscopy John Michael Hollas, 1982 Extracts from a Review in Spectroscopy Europe 11 3 1999

Constituents of Matter Wilhelm Raith, Thomas Mulvey, 2001-07-11 Originally published as part of the renowned Bergmann Schaefer textbook series on experimental physics this volume fills an important void by providing a thorough treatment of the basic atoms molecules nuclei and particles Written by experimentalists it forms a unique compendium of our practical knowledge of the basic elements While keeping all of the rigor necessary for a clean treatment the authors go beyond theory and describe major experimental results that give readers a clear view of the practical side of nature

Air Pollution Abstracts, 1971

Microwave, Infrared, and Laser Transitions of Methanol Atlas of Assigned Lines from 0 to 1258 cm⁻¹ Giovanni Moruzzi, 2018-01-10 This unique atlas presents the recorded spectrum of CH₃OH the main isotopic species of methanol in the range 28 1258 cm⁻¹ The spectral plot is accompanied by a list of all currently assigned rotation torsion vibration lines in the absorption spectrum of methanol The list of nearly 35 000 transitions spans all of the known microwave transitions as well as the region of coincidence with CO₂ laser emissions

Optically Polarized Atoms Marcis Auzinsh, Dmitry Budker, Simon Rochester, 2010-07-22 An accessible textbook for

students and practitioners of Atomic Molecular and Optical Physics It will be useful for scientists working with lasers The book comes with an extensive freely downloadable software package and many colourful and animated illustrations

Additional materials are available for instructors Superlattices and Other Heterostructures Eougenious L.

Ivchenko,Grigory Pikus,2012-12-06 Superlattices and Other Heterostructures deals with optical properties of superlattices and quantum well structures with emphasis on phenomena governed by crystal symmetries After a brief introduction to group theory and symmetries methods to calculate spectra of electrons excitons and phonons in heterostructures are discussed Further chapters cover absorption and reflection of light under interband transitions cyclotron and electron spin resonance light scattering by free and bound carriers as well as by optical and acoustic phonons polarized photoluminescence optical spin orientation of electrons and excitons and nonlinear optical and photogalvanic effects

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 *Particle Confinement in Penning Traps* Manuel Vogel,2024-04-01 This second edition is an updated and

extended introduction to the world of Penning traps and provides an overview of the field particularly for those entering it The book presents the basics of Penning traps from a fundamental and applied point of view and discusses the variety of methods technologies and their applications to experiments particularly in the field of precision spectroscopy across all frequency ranges The book is written from an experimentalist's point of view it includes numerous new illustrations and updated references to the available literature to ensure a high degree of breadth and accessibility The new edition provides for instance a new chapter on particle temperature and cooling new sections on particle dynamics g factor measurements space charge as a confinement limitation space charge and resonant particle loss as well as a section on particle loss mechanisms

Advances in Atomic and Molecular Physics ,1985-11-08 Advances in Atomic and Molecular Physics

Introduction to the Theory of Laser-Atom Interactions Marvin H. Mittleman, 2013-11-21 In response to the explosion of theories and experiments since the appearance of the first edition the author has revised and expanded his basic text New sections include up to date discussions of multiphoton ionization and electron atom and atom atom scattering in laser fields reaffirming the work s position as the standard introduction to the field

Electron Collisions with Molecules, Clusters, and Surfaces H. Ehrhardt, L.A. Morgan, 2013-06-29 This volume contains the invited papers and selected contributed papers presented at the biennial International Symposium on ELECTRON COLLISIONS WITH MOLECULES CLUSTERS AND SURF ACES held at Royal Holloway University of London from 29th to 30th July 1993 This Symposium was a Satellite Meeting of the XVIII International Conference on the Physics of Electronic and Atomic Collisions ICPEAC and follows a 16 year tradition of Satellite Conferences in related areas of collisions held in association with previous ICPEAC s In the past each of these electron molecule symposia covered the broad field of electron molecule scattering at rather low energies but also included hot topics This time as well as covering the whole field well defined electron collisions with clusters and with particles in the complex potential of a surface were emphasized Not many details are known about such collisions although they become more and more important in surface characterisation plasma wall interactions electron induced desorption and reorganisation of adsorbed particles Recently much work theoretical and experimental has been devoted to electron collisions with rather large carbon silicon and halogen containing molecules These problems are of relevance in plasma assisted thin film formation and etching of surfaces and can now be approached with advanced theoretical methods and experimental equipment

The Physics of Atoms and Quanta H. Haken, Hans Christoph Wolf, 2000 The Physics of Atoms and Quanta is a thorough introduction to experiments and theory in this field Every classical and modern aspect is covered and discussed in detail The sixth edition includes new developments as well as new experiments in quantum entanglement Schrodingers cat the quantum computer quantum information the atom laser and much more A wealth of experiments and problems are included As this reference ends with the fundamentals of classical bonding it leads into the authors more advanced book Molecular Physics and Elements of Quantum Chemistry

Atomic Physics 3 Stephen Smith, 2012-12-06 Session A Status of QED Experiments Status of Quantum Electrodynamics Theory Atomic Physics and Quantum Electrodynamics in the Infinite Momentum Frame Theories of the Fine Structure Constant gJ H gS e Determination Preliminary Results Session B Exotic Atoms Highly Excited States of Helium and Neon Theoretical Study of Atomic Rydberg States Inner Shell Ionization by Heavy Charged Particles Fine Structure and Hyperfine Structure of the Helium Negative Ion Statistical Theory of Atom and Ion Polarizabilities Session C Ab Initio Calculations of Atomic Energy Spectra

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Hanle Effect And Level Crossing Spectroscopy Introduction

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