

Graduate Texts in Physics

Ingolf V. Hertel
Claus-Peter Schulz

Atoms, Molecules and Optical Physics 1

Atoms and Spectroscopy



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Atoms, Molecules and Optical Physics 1 Ingolf V. Hertel, Claus-Peter Schulz, 2014-10-24 This is the first volume of textbooks on atomic molecular and optical physics aiming at a comprehensive presentation of this highly productive branch of modern physics as an indispensable basis for many areas in physics and chemistry as well as in state of the art bio and material sciences It primarily addresses advanced students including PhD students but in a number of selected subject areas the reader is lead up to the frontiers of present research Thus even the active scientist is addressed This volume 1 provides the canonical knowledge in atomic physics together with basics of modern spectroscopy Starting from the fundamentals of quantum physics the reader is familiarized in well structured chapters step by step with the most important phenomena models and measuring techniques The emphasis is always on the experiment and its interpretation while the necessary theory is introduced from this perspective in a compact and occasionally somewhat heuristic manner easy to follow even for beginners

Atoms, Molecules and Optical Physics 2 Ingolf V. Hertel, Claus-Peter Schulz, 2014-10-22 This is the second volume of textbooks on atomic molecular and optical physics aiming at a comprehensive presentation of this highly productive branch of modern physics as an indispensable basis for many areas in physics and chemistry as well as in state of the art bio and material sciences It primarily addresses advanced students including PhD students but in a number of selected subject areas the reader is lead up to the frontiers of present research Thus even the active scientist is addressed This volume 2 introduces lasers and quantum optics while the main focus is on the structure of molecules and their spectroscopy as well as on collision physics as the continuum counterpart to bound molecular states The emphasis is always on the experiment and its interpretation while the necessary theory is introduced from this perspective in a compact and occasionally somewhat heuristic manner easy to follow even for beginners

Atoms, Molecules and Photons Wolfgang Demtröder, 2010-11-10 This introduction to Atomic and Molecular Physics explains how our present model of atoms and molecules has been developed during the last two centuries by many experimental discoveries and from the theoretical side by the introduction of quantum physics to the adequate description of micro particles It illustrates the wave model of particles by many examples and shows the limits of classical description The interaction of electromagnetic radiation with atoms and molecules and its potential for spectroscopy is outlined in more detail and in particular lasers as modern spectroscopic tools are discussed more thoroughly Many examples and problems with solutions should induce the reader to an intense active cooperation

Springer Handbook of Atomic, Molecular, and Optical Physics Gordon W. F. Drake, 2023-02-09 Comprises a comprehensive reference source that unifies the entire fields of atomic molecular and optical AMO physics assembling the principal ideas techniques and results of the field 92 chapters written by about 120 authors present the principal ideas techniques and results of the field together with a guide to the primary research literature carefully edited to ensure a uniform coverage and style with extensive cross references Along with a summary of key ideas

techniques and results many chapters offer diagrams of apparatus graphs and tables of data From atomic spectroscopy to applications in comets one finds contributions from over 100 authors all leaders in their respective disciplines Substantially updated and expanded since the original 1996 edition it now contains several entirely new chapters covering current areas of great research interest that barely existed in 1996 such as Bose Einstein condensation quantum information and cosmological variations of the fundamental constants A fully searchable CD ROM version of the contents accompanies the handbook

Advances in Atomic, Molecular, and Optical Physics, 2005-12-20 Benjamin Bederson contributed to the world of physics in many areas in atomic physics where he achieved renown by his scattering and polarizability experiments as the Editor in Chief for the American Physical Society where he saw the introduction of electronic publishing and a remarkable growth of the APS journals with ever increasing world wide contributions to these highly esteemed journals and as the originator of a number of international physics conferences in the fields of atomic and collision physics which are continuing to this day Bederson was also a great teacher and university administrator The first part of this volume of Advances in Atomic Molecular and Optical Physics AAMOP entitled Benjamin Bederson Works Comments and Legacies contains articles written from a personal perspective His days at Los Alamos during World War II working on the A bomb are recounted by V Fitch H Walther writes on the time when both were editors of AAMOP H Lustig E Merzbacher and B Crasemann with whom Bederson had a long term association at the American Physical Society contribute their experiences one of them in the style of a poem C D Rice recalls his days when he was Dean of the Faculty of Arts and Science at NYU and the education in physics that he received from Bederson then Dean of the Graduate School The contribution by R Stuewer is on Bederson as physicist historian his latest interest N Lane draws some parallels between two civic scientists Benjamin Bederson and the other Benjamin The papers are introduced by H H Stroke in an overview of Bederson s career A biography and bibliography are included The second part of the volume contains scientific articles on the Casimir effects L Spruch dipole polarizabilities X Chu A Dalgarno two electron molecular bonds revisited G Chen S A Chin Y Dou K T Kapale M Kim A A Svidzinsky K Uretkin H Xiong M O Scully and resonance fluorescence of two level atoms H Walther J Pinard and H H Stroke review spectroscopy with radioactive atoms T Miller writes on electron attachment and detachment in gases and with H Gould on recent developments in the measurement of static electric dipole polarizabilities R Celotta and J A Strosio s most recent work on trapping and moving atoms on surfaces is contributed here C C Lin and J B Borrard s article is on electron impact excitation cross sections The late Edward Pollack wrote his last paper for this volume Atomic and Ionic Collisions L Vuskovic and S Popovi c write on atomic interactions in a weakly ionized gas and ionizing shock waves The last scientific article is by H Kleinpoppen B Lohmann A Grum Grzhimailo and U Becker on approaches to perfect complete scattering in atomic and molecular physics The book ends with an essay on teaching by R E Collins Benjamin Bederson Atomic Physicist Civil Scientist The Physical Review and Its Editor Los Alamos in World War II View from Below Physics in Poetry Casimir

Effects Pedagogical Notes Atomic Physics in Collisions Polarizabilities Gases Atomic Physics and Radioactive Atoms
Molecular Bond Revisited Resonance Fluorescence in 2 Level Atoms Trapping and Moving Atoms on Surfaces **Atomic and Molecular Spectroscopy** Sune Svanberg,2012-12-06 Atomic and Molecular Spectroscopy is a wide ranging review of modern spectroscopic techniques such as X ray photoelectron optical and laser spectroscopy as well as radiofrequency and microwave techniques On the fundamental side it focuses on physical principles and the impact of spectroscopy on our understanding of the building blocks of matter while in the area of applications particular attention is paid to chemical analysis photochemistry surface characterisation environmental and medical diagnostics remote sensing and astrophysics The third edition also provides the reader with an update on laser cooling and trapping Bose Einstein condensation ultrafast spectroscopy high power laser matter interaction satellite based astronomy and spectroscopic aspects of laser medicine

Principles of Laser Spectroscopy and Quantum Optics Paul R. Berman,Vladimir S. Malinovsky,2011-01-02 Principles of Laser Spectroscopy and Quantum Optics is an essential textbook for graduate students studying the interaction of optical fields with atoms It also serves as an ideal reference text for researchers working in the fields of laser spectroscopy and quantum optics The book provides a rigorous introduction to the prototypical problems of radiation fields interacting with two and three level atomic systems It examines the interaction of radiation with both atomic vapors and condensed matter systems the density matrix and the Bloch vector and applications involving linear absorption and saturation spectroscopy Other topics include hole burning dark states slow light and coherent transient spectroscopy as well as atom optics and atom interferometry In the second half of the text the authors consider applications in which the radiation field is quantized Topics include spontaneous decay optical pumping sub Doppler laser cooling the Heisenberg equations of motion for atomic and field operators and light scattering by atoms in both weak and strong external fields The concluding chapter offers methods for creating entangled and spin squeezed states of matter Instructors can create a one semester course based on this book by combining the introductory chapters with a selection of the more advanced material A solutions manual is available to teachers Rigorous introduction to the interaction of optical fields with atoms Applications include linear and nonlinear spectroscopy dark states and slow light Extensive chapter on atom optics and atom interferometry Conclusion explores entangled and spin squeezed states of matter Solutions manual available only to teachers *Graduate Programs in Physics, Astronomy and Related Fields* American Institute of Physics,2001 **Scientific and Technical Aerospace Reports** ,1981

University of Michigan Official Publication University of Michigan,1988 Each number is the catalogue of a specific school or college of the University *Directory of Research Grants 2008* Schoolhouse Partners Llc,2008-05 It was the 50s and life was simple until September 25 1954 That was the night that would be etched in the memory of the citizens of Stanfield Massachusetts The Chief of Police described the brutal savagery of the double homicide as the most atrocious crime in the history of the city A fourteen year old girl and the four year old boy in her care were murdered at the hands of a deranged

depraved killer A Thread of Evidence places the reader at the scene of the crime an eye witness to the senseless stabbing of two innocent children With a piece of crochet thread as their only clue the entire police department lead by detectives Steven Logan and Raymond Gage scour the city in search of a maniacal savage When all tips and leads have been exhausted they review all evidence They come back to the thread The only real evidence With tenacity and perseverance of Logan and Gage the killer is apprehended The reader experiences the twists and turns of the investigation and ultimately occupies a reserved seat in the Superior Court as the trial proceedings commence A Thread of Evidence has been written as fiction but inspired by an actual event Fifty years later it remains etched in the minds of all who had lived in the area The author has researched court records newspapers interviewed neighbors police and has drawn on personal recollections of the crime The story has been recounted over and over and to this day it continues to be discussed A Thread of Evidence is a compelling account of superb detective work and unprecedented dedication of an entire police department Controlling the Quantum World

National Research Council, Division on Engineering and Physical Sciences, Board on Physics and Astronomy, Committee on AMO 2010, 2007-06-21 As part of the Physics 2010 decadal survey project the Department of Energy and the National Science Foundation requested that the National Research Council assess the opportunities over roughly the next decade in atomic molecular and optical AMO science and technology In particular the National Research Council was asked to cover the state of AMO science emphasizing recent accomplishments and identifying new and compelling scientific questions Controlling the Quantum World discusses both the roles and challenges for AMO science in instrumentation scientific research near absolute zero development of extremely intense x ray and laser sources exploration and control of molecular processes photonics at the nanoscale level and development of quantum information technology This book also offers an assessment of and recommendations about critical issues concerning maintaining U S leadership in AMO science and technology ERDA Energy Research Abstracts United States. Energy Research and Development Administration, 1976

Graduate Studies University of South Carolina, 1973 **Government Reports Annual Index**, 1975 ERDA Energy Research Abstracts United States. Energy Research and Development Administration. Technical Information Center, 1976

Springer Handbook of Atomic, Molecular, and Optical Physics Gordon W. F. Drake, 2007-02-05 This Springer Handbook comprises a comprehensive reference source that unifies the entire fields of atomic molecular and optical AMO physics assembling the principal ideas techniques and results of the field Its 90 chapters written by about 120 authors all leaders in their respective disciplines together with a guide to the primary research literature It has been carefully edited to ensure a uniform coverage and style with extensive cross references It is intended to be both a source of information and inspiration for graduate students and other researchers new to the field Along with a summary of key ideas techniques and results many chapters offer diagrams of apparatus graphs and tables of data From atomic spectroscopy to applications in comets one finds contributions from over 100 authors all leaders in their respective disciplines Substantially updated and expanded since the

original 1996 edition it now contains several entirely new chapters covering current areas of great research interest that barely existed in 1996 such as Bose Einstein condensation quantum information and cosmological variations of the fundamental constants A fully searchable CD ROM version of the contents accompanies the handbook *Atoms and Molecules in Laser and External Fields* Man Mohan, 2008 The recent evolution of lasers and other external field e g Synchrotron radiation strong electric and magnetic fields sources is opening up new frontiers of science which cover explorations in broad areas ranging from atomic molecular and optical physics AMOP to nuclear fusion and high energy particle physics even further to astrophysics and cosmology Atomic and molecular dynamics is being explored at the femto and near atto second time scale Ultra intense laser and other external fields attracting vigorous attention and interest from the view point of their control The topics covered in the book are Applications of ultra intense ultra short pulse lasers Atoms molecules and clusters in strong laser and other external fields high field chemistry high harmonic generation HHG X ray generation by laser matter interactions and their applications collisions in laser fields relativistic particle generation and acceleration by super strong laser plasma interactions etc Atoms, Molecules and Photons Wolfgang Demtröder, 2012-02-09 This introduction to Atomic and Molecular Physics explains how our present model of atoms and molecules has been developed during the last two centuries by many experimental discoveries and from the theoretical side by the introduction of quantum physics to the adequate description of micro particles It illustrates the wave model of particles by many examples and shows the limits of classical description The interaction of electromagnetic radiation with atoms and molecules and its potential for spectroscopy is outlined in more detail and in particular lasers as modern spectroscopic tools are discussed more thoroughly Many examples and problems with solutions should induce the reader to an intense active cooperation Research Centers Directory , 2010 Research institutes foundations centers bureaus laboratories experiment stations and other similar nonprofit facilities organizations and activities in the United States and Canada Entry gives identifying and descriptive information of staff and work Institutional research centers and subject indexes 5th ed 5491 entries 6th ed 6268 entries

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