

Atomic, Molecular, and Optical Physics Handbook

Contributors: Martin Weitz and Thomas Kuhn et al.



Atomic Molecular And Optical Physics Handbook

Y Pai



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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

Atomic, Molecular, and Optical Physics Handbook Martin Veis, Roman Antos, 2016-04 **Atomic, molecular, & optical physics handbook** Gordon W. F. Drake, 1996 *Atomic, Molecular, and Optical Physics Handbook* Gordon W.F. Drake, 1996-02-13 This text provides a summary of the key ideas techniques and research results in the field of atomic molecular and optical physics It is intended to be of interest to all physicians especially in condensed matter and chemical physics and engineers as [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

Handbook of Atomic, Molecular, and Optical Physics Maria Emilova Velinova, 2016-11-30 The first part of the book presents the leading investigations in the theoretical and experimental study of the atomic systems The second part starts with a discussion of molecular structures from computational and theoretical perspective The final section looks at the experimental aspects of the molecular physics involving various types of spectroscopy [Studyguide for Springer Handbook](#)

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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.

Handbook of High-resolution Spectroscopy Martin Quack, Frederic Merkt, 2011-09-26

The field of High Resolution Spectroscopy has been considerably extended and even redefined in some areas. Combining the knowledge of spectroscopy laser technology chemical computation and experiments. Handbook of High Resolution Spectroscopy provides a comprehensive survey of the whole field as it presents itself today with emphasis on the recent developments. This essential handbook for advanced research students graduate students and researchers takes a systematic approach through the range of wavelengths and includes the latest advances in experiment and theory that will help and guide future applications. The first comprehensive survey in high resolution molecular spectroscopy for over 15 years. Brings together the knowledge of spectroscopy laser technology chemical computation and experiments. Brings the reader up to date with the many advances that have been made in recent times. Takes the reader through the range of wavelengths covering all possible techniques such as Microwave Spectroscopy Infrared Spectroscopy Raman Spectroscopy VIS UV and VUV. Combines theoretical computational and experimental aspects. Has numerous applications in a wide range of scientific domains. Edited by two leaders in this field. Provides an overview of rotational vibration electronic and photoelectron spectroscopy.

Volume 1 Introduction Fundamentals of Molecular Spectroscopy Volume 2 High Resolution Molecular Spectroscopy Methods and Results Volume 3 Special Methods Applications

Precision Physics of Simple Atoms and Molecules Savely G. Karshenboim, 2007-12-11

The study of simple atoms and molecules permits unique confrontations between fundamental theory and precision measurements. It has played a central role in many early discoveries that laid the foundations of quantum physics. Since computational and experimental tools are still evolving rapidly intriguing opportunities for future research continue to emerge. How could precision measurements uncover limits of the standard model? How can we improve the accuracy of fundamental constants? Are fundamental constants really constant? How could we detect possible differences between matter and antimatter? How can we overcome the problem of hadronic structure in precision tests of quantum electrodynamics theory? How well can QED predict the energy levels of atoms with few electrons? What new physics can be discovered in experiments with exotic atoms? How well do we understand simple molecules? These are just a few of the questions that are now moving into a new focus. This volume collects contributions from experts at the frontier of atomic and molecular precision physics. It illustrates the current state of the art points at future opportunities and

emphasizes an exciting frontier in atomic and molecular physics that remains as important as ever despite several other strong currents and fashions in the field. Since I have devoted more than three decades of my career to precision laser spectroscopy of the simple hydrogen atom I am particularly grateful to the editor Dr Savely G Karshenboim for his initiative to highlight such precision studies of simple atoms and molecules.

Atom Optics Pierre Meystre, 2001-09-21 Quantum mechanics does away with the distinction between particles and waves and one of the more interesting implications of the wave particle duality is the discovery that atoms may be manipulated in ways analogous to the manipulation of light with lenses and mirrors. This has formed the basis for the relatively new field of atom optics. Pierre Meystre's *Atom Optics* is the first book entirely devoted to this exciting area of research. Reference links to the leading journals in the field, links to research sites, graphics and updates can be found online.

Structure of Multielectron Atoms Anders Kastberg, 2020-04-23 This book is about the structure of multielectron atoms and predominantly adopts a perturbative approach to the total Hamiltonian. A key concept is the central field approximation and beyond the standard LS coupling and jj coupling schemes intermediate cases are also treated. After that the book covers hyperfine structure and other nuclear effects as well as interactions with static external fields. Throughout the book an analytical approach is adopted. Working knowledge of basic quantum mechanics including the non relativistic hydrogen atom, basic angular momentum and perturbation theory is assumed and it begins with a brief recap of the hydrogen orbitals before turning towards the symmetry aspects of multi electron atoms, spin orbit interaction and couplings of angular momenta.

Relativistic Quantum Theory of Atoms and Molecules Ian P Grant, 2007-04-15 This book is intended for physicists and chemists who need to understand the theory of atomic and molecular structure and processes and who wish to apply the theory to practical problems. As far as practicable the book provides a self contained account of the theory of relativistic atomic and molecular structure based on the accepted formalism of bound state Quantum Electrodynamics. The author was elected a Fellow of the Royal Society of London in 1992.

Journal of Research of the National Institute of Standards and Technology, 1996

Opacity Walter F. Huebner, W. David Barfield, 2014-01-02 This book covers all aspects of opacity and equations of state for gases, plasmas and dust. The discussion emphasizes the continuous transformation of the equilibrium compositions of these phases as a function of temperature and density.

Physicist's Desk Reference Richard E. Cohen, David Lide, George Trigg, 2003-01-27 This is a major revision of a classic best selling reference book. Originally published by the American Institute of Physics under the title *Physics Vade Mecum* in 1981 and then the second edition in 1989 with the new title *A Physicist's Desk Reference*, this third edition has been completely updated and modernized to reflect current modern physics. The book is a concise compilation of the most frequently used physics data and formulae with their derivations. This revision has six more chapters than the second edition: outdated chapters dropped and new chapters added on atmospheric physics, electricity and magnetism, elementary particle physics, fluid dynamics, geophysics, nonlinear physics, particle accelerators, polymer physics.

and quantum theory There is a new last chapter on practical laboratory data The references and bibliographies have been updated This book is an indispensable tool for the researcher professional and student in physics as well as other scientists who use physics data The editors of this volume are Richard Cohen author of the first two chapters of PDR and the Physics Quick Reference Guide David Lide one of the editors of the previous two editions and the editor of the CRC Handbook of Physics and Chemistry and George Trigg editor of the Encyclopedia of Physics and the Encyclopedia of Applied Physics VCH The market for this classic reference book includes the practicing scientist including engineers chemists and biologists and students

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