

# Physics of Atoms and Molecules

second edition

**B.H. Bransden &  
C.J. Joachain**

Pearson  
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# Physics Of Atoms And Molecules 2nd Edition

**Pierre Meystre**



## Physics Of Atoms And Molecules 2nd Edition:

**Physics of Atoms and Molecules** B. H. Bransden, Charles Jean Joachain, 2003 The study of atomic and molecular physics is a key component of undergraduate courses in physics because of its fundamental importance to the understanding of many aspects of modern physics The aim of this new edition is to provide a unified account of the subject within an undergraduate framework taking the opportunity to make improvements based on the teaching experience of users of the first edition and cover important new developments in the subject Key features of this new edition Revised material on molecular structure and spectra Extended material on electronic and atomic collisions A new chapter describing applications based on the use of the maser and the laser including laser spectroscopy laser cooling and trapping of atoms Bose Einstein condensation atom lasers and atomic systems in intense laser fields A new chapter describing other applications including magnetic resonance atom optics atoms in cavities ions in traps atomic clocks and astrophysics Revised appendices include new material on molecules and updated tables of physical constants Solutions of selected problems B H Bransden is Emeritus Professor of Theoretical Physics at the University of Durham C J Joachain is Professor of Theoretical Physics at the University of Brussels They are co authors of Quantum Mechanics also published by Prentice Hall *Atome, Moleküle und optische Physik 2* Ingolf V. Hertel, C.-P. Schulz, 2010-11-25 Das Buch wendet sich in erster Linie an fortgeschrittene Studierende der Physik und der Physikalischen Chemie bis hin zur Promotion Es bietet eine detaillierte Einführung in die wichtigsten Themenkomplexe der Atom und Molekülphysik und der damit verbundenen Methoden moderner optischer Physik In vielen ausgewählten Teilgebieten führt es bis hin zum aktuellen Stand der Forschung Zugleich spricht es aber auch den aktiven Wissenschaftler an und will ein Standardwerk des Gebietes sein Durch klar strukturierte Kapitel wird der Leser ausgehend von den Grundlagen der Quantenphysik schrittweise mit den wichtigsten Phänomenen Modellen und Messmethoden vertraut gemacht Dabei liegt der Fokus auf dem Experiment und seiner Interpretation die notwendige Theorie wird aus kompakt eingeführt Der vorausgehende erste Band konzentriert sich auf die Struktur der Atome und eine Einführung in moderne Methoden der Spektroskopie Im vorliegenden zweiten Teil geht es um die Struktur von Molekülen und ihre Spektroskopie sowie um Streuphysik die komplementär zu den gebundenen Molekülen das Kontinuum behandelt Schließlich werden ausgewählte Kapitel der Laserphysik der modernen Optik und Quantenoptik behandelt Insgesamt möchten die beiden Bände dieses Lehrbuchs dem interessierten Leser zeigen dass Atom Molekül und optische Physik nach wie vor ein lebendiger Bereich der modernen physikalischen Forschung ist **Atom- und Quantenphysik** Hermann Haken, Hans C. Wolf, 2013-03-13 Atom und Quantenphysik führt sorgfältig und leicht verständlich in die Ergebnisse und Methoden der empirischen Atomphysik ein wobei auch das Rüstzeug der Quantentheorie vermittelt und besonders die Wechselwirkung zwischen Experiment und Theorie herausgearbeitet wird Die vorliegende sechste Auflage wurde verbessert und durch Berücksichtigung neuer Entwicklungen ergänzt Ein neuer Abschnitt zu Positronium Myonium und Antiwasserstoff wurde hinzugefügt

gt bereits ab der 5 Auflage direkte Beobachtung einzelner Atome in Paul Fallen von Atomen in Molek len an Festk rperoberfl chen durch Rastertunnelmikroskopie neue Experimente zur Atominterferometrie Laserk hlung von Atomen Auch gibt es einen Anhang zur Herleitung der Heisenbergschen Unsch rferelation Das letzte Kapitel f hrt in die Grundlagen der Quantentheorie der chemischen Bindung ein welche im zweiten Band der Autoren Molek lphysik und Quantenchemie ihre Fortsetzung findet 167 bungen mit vollst ndigen L sungen runden das Buch ab und dienen der Vertiefung

**Molek lphysik und Quantenchemie** Hermann Haken,Hans C. Wolf,2013-03-09 Molek lphysik und Quantenchemie f hrt gemeinsam in die Grundlagen der Gebiete ein wie es zum Verst ndnis der physikalischen Eigenschaften von Molek len und der chemischen Bindung erforderlich ist Aufbauend auf Grundkenntnissen der Atom und Quantenphysik von den gleichen Autoren vermittelt es den Studenten der Physik der Physikalischen Chemie und der Theoretischen Chemie die experimentellen und theoretischen Grundlagen Die zweite Auflage geht neben neueren theoretischen Ans tzen auf aktuelle Entwicklungen ein wie hochaufl sende Zweiphotonen Ultrakurzzeit und Photoelektronenspektroskopie optische Untersuchung einzelner Molek le in kondensierter Phase Elektrolumineszenz und Leuchtdioden Atomic and Molecular Spectroscopy Sune Svanberg,2023-01-06 A wide ranging review of modern spectroscopic techniques such as X ray photoelectron optical and laser spectroscopy and radiofrequency and microwave techniques On the fundamental side the book 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 given to those in chemical analysis photochemistry surface characterisation environmental and medical diagnostics remote sensing and astrophyscis The Fourth Edition also provides the reader with an update on laser cooling and trapping Bose Einstein condensation ultra fast spectroscopy high power laser matter interaction satellite based astronomy and spectroscopic aspects of laser medicine 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 Thewide availability of tunable lasers in the past several years has revolutionized the field and lead 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 **Atome, Molek l und optische Physik 1** Ingolf V.

Hertel,C.-P. Schulz,2017-11-11 Das Buch bietet eine detaillierte Einf hrung in die wichtigsten Themenkomplexe der Atom und Molek lphysik und die damit verbundenen Methoden moderner optischer Physik In vielen ausgew hlten Teilgebieten f hrt es bis hin zum aktuellen Stand der Forschung Es wendet sich damit in erster Linie an fortgeschrittene Studierende der Physik und der Physikalischen Chemie bis hin zur Promotion Zugleich spricht es aber auch den aktiven Wissenschaftler an und will ein Standardwerk des Gebietes sein Die vorliegende zweite Auflage wurde in den Grundlagen wie in den Anwendungen ausf hrlich erweitert und aktualisiert Durch die nochmals verbesserte klare Strukturierung der Kapitel wird der Leser ausgehend

von den Grundlagen der Mikro und Quantenphysik schrittweise mit den wichtigsten Phänomenen und Modellen der Atom und Molekülphysik vertraut gemacht und wo immer es sich anbietet an deren aktuelle Entwicklungen in der modernen Forschung heran geführt. Im hier vorgelegten ersten Teil wird das kanonische Wissen mit dem Schwerpunkt Struktur der Atome und einer Einführung in die moderne Spektroskopie zusammengetragen. Der zweite Band vertieft ausgewählte Themen aus der modernen Optik konzentriert sich dann auf die Molekülphysik sowie ihre Spektroskopie und führt in die Physik atomarer Stoßprozesse ein. Insgesamt möchten die beiden Bände dieses Lehrbuchs dem interessierten Leser zeigen, dass Atome, Moleküle und optische Physik nicht nur die Grundlagen für weite Gebiete der Physik und ihrer Nachbardisziplinen beinhalten, sondern nach wie vor ein lebendiger Bereich der modernen physikalischen Forschung sind.

*Physics of Atoms and Molecules* Brian Harold Bransden, 1986  
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.

*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.

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

*Atom, Molecule, and Cluster Beams II* Hans Pauly, 2000-09-27 This book completes the physical foundations and experimental techniques described in volume 1 with an updated review of the accessory equipment indispensable in molecular beam experiments It extends the subject to cluster beams and beams of hyperthermal and subthermal energies As in volume 1 a special effort is made to outline the physical foundations of the various experimental techniques Hence this book is intended not only as a reference standard for researchers in the field but also to bring the flavor of current molecular beam research to advanced undergraduates and graduate students and to enable them to gain a solid background in the field and its technique

*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

**Advances in Atomic, Molecular, and Optical Physics** Paul R. Berman, Ennio Arimondo, Chun C. Lin, 2011-10-03 Advances in Atomic Molecular and Optical Physics publishes reviews of recent developments in a field which is in a state of rapid growth as new experimental and theoretical techniques are used on many old and new problems Topics covered include related applied areas such as atmospheric science astrophysics surface physics and laser physics Articles are written by distinguished experts and contain both relevant review material and detailed descriptions of important recent developments International experts Comprehensive articles New developments

*Springer-Handbuch der Mathematik IV* Eberhard Zeidler, 2012-12-14 Als mehrb ndiges Nachschlagewerk ist das Springer Handbuch der Mathematik in erster Linie f r wissenschaftliche Bibliotheken akademische Institutionen und Firmen sowie interessierte Individualkunden in Forschung und Lehre gedacht Es erg nzt das einb ndige themenumfassende Springer Taschenbuch der Mathematik ehemaliger Titel Teubner Taschenbuch der Mathematik das sich in seiner begrenzten Stoffauswahl besonders an Studierende richtet Teil IV des Springer Handbuchs enth lt die folgenden Zusatzkapitel zum Springer Taschenbuch H here Analysis Lineare sowie Nichtlineare Funktionalanalysis und ihre Anwendungen Dynamische Systeme Nichtlineare partielle Differentialgleichungen Mannigfaltigkeiten Riemannsche Geometrie und allgemeine Relativit tstheorie Liegruppen Liealgebren und Elementarteilchen Topologie Kr mmung und Analysis

Basic Molecular Quantum Mechanics Steven A. Adelman, 2021-08-01 Quantum mechanics is a general theory of the motions structures properties and behaviors of particles of atomic and subatomic dimensions While quantum mechanics was created in the first third of the twentieth century by a handful of theoretical physicists working on a limited number of problems it has further developed and is now applied by a great number of people working on a vast range of problems in wide areas of science and technology Basic Molecular

Quantum Mechanics introduces quantum mechanics by covering the fundamentals of quantum mechanics and some of its most important chemical applications vibrational and rotational spectroscopy and electronic structure of atoms and molecules Thoughtfully organized the author builds up quantum mechanics systematically with each chapter preparing the student for the more advanced chapters and complex applications Additional features include the following This book presents rigorous and precise explanations of quantum mechanics and mathematical proofs It contains qualitative discussions of key concepts with mathematics presented in the appendices It provides problems and solutions at the end of each chapter to encourage understanding and application This book is carefully written to emphasize its applications to chemistry and is a valuable resource for advanced undergraduates and beginning graduate students specializing in chemistry in related fields such as chemical engineering and materials science and in some areas of biology

**Physical Aspects of the Human Body** Hartmut Zabel, 2023-04-27 The updated edition of the first of three volumes on Medical Physics focuses even more on body systems related to physical principles such as body mechanics energy balance and action potentials Thanks to numerous newly incorporated didactic features the introductory text into the broad field of medical physics is easy to understand and supports self study New highlighted boxes emphasize special topics math boxes explain more advanced mathematical issues each chapter concludes with a summary of the key concepts questions a self assessment of the acquired competence and exercises The appendix contains answers to questions and solutions to exercises

**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

*Progress in Nano-Electro-Optics II* Motoichi Ohtsu, 2012-12-06 Novel Devices and Atom Manipulation the second and concluding volume of Progress in Nano Electro Optics focuses on applications to novel devices and atom manipulation Each chapter is written by a leading scientists in the field Part II addresses the latest developments in nano optical techniques dealing with topics such as the reasons that the resolution of nano electro optical techniques extend beyond the diffraction limit applications of excitonic polaritons to opto electronic devices instrumentation of near field optical microscopy to study quantum confined systems and atom

manipulation by optical near field techniques Together with volume I Basics and Theory of Near Field Optics these overviews are a valuable resource for engineers and scientists working in the field of nano electro optics



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