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Ingolf V. Hertel, Claus-Peter Schulz



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Atome 3 - Molekuele 1 S. Fluegge, 1959 *Atome, Moleküle und optische Physik 1* Ingolf Volker Hertel, Claus-Peter Schulz, 2015-05-05 Das Buch wendet sich an fortgeschrittene Studierende der Physik und der Physikalischen Chemie bis hin zur Promotion Es bietet eine detaillierte Einführung in die wichtigsten Themen der Atom und Molekülphysik und der damit verbundenen Methoden moderner optischer Physik Durch die klar strukturierten Kapitel wird der Leser mit den wichtigsten Phänomenen und Modellen der Atom und Molekülphysik vertraut gemacht und an deren aktuelle Entwicklungen in der modernen Forschung herangeführt Der vorliegende erste Teil legt den Schwerpunkt auf die Struktur der Atome und Moleküle und der einschlägigen spektroskopischen Methoden Um das von Studierenden nachgefragte Buch bis zur Neuauflage auch weiterhin lieferbar halten zu können wurde es schwarzweiß gedruckt **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 *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 **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

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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 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 the discovery that atoms may be manipulated in ways analogous to the manipulation of light with lenses and mirrors 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 *Atome, Moleküle und Optische Physik 2* C.-P. Schulz, 2010 **Theoretical**

Atomic Physics Harald Siegfried Friedrich, 2005-12-27 level and a good understanding of the links to classical mechanics is

almost always helpful The aim of Theoretical Atomic Physics remains to provide the reader with a solid foundation of this sort of advanced quantum mechanics In preparing the third edition I have again tried to do justice to the rapid development of the field I have included references to important new work whenever this seemed appropriate and easy to do Chapter 1 now includes a section on processes involving wave packets of continuum states and also an expanded treatment of the semiclassical approximation Chapter 3 begins with a section illuminating the characteristic differences in the near threshold properties of long ranged and shorter ranged potentials and the first section of Chap 4 contains a more elaborate discussion of scattering lengths As a further special topic in Chap 5 there is a section describing some aspects of atom optics including discussions of the interactions of atoms with material surfaces and with light fields The appendix on special mathematical functions has been slightly expanded to accommodate a few results that I repeatedly found to be useful I am grateful to many colleagues who continue to inspire me with numerous discussions involving atomic physics quantum mechanics and semiclassical connections in particular Robin Coté at the University of Connecticut Manfred Kleber at the Technical University Munich and Jan Michael Rost at the Max Planck Institute for Complex Systems in Dresden

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