



An Introduction to Atomic and Molecular Physics

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Introduction To Atomic And Molecular Physics

Hermann Haken, Hans Christoph Wolf



Introduction To Atomic And Molecular Physics:

Atoms, Molecules and Photons Wolfgang Demtröder, 2019-02-09 This introduction to Atomic and Molecular Physics explains how our present model of atoms and molecules has been developed over the last two centuries both 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 are offered to encourage readers to actively engage in applying and adapting the fundamental physics presented in this textbook to specific situations Completely revised third edition with new sections covering all actual developments like photonics ultrashort lasers ultraprecise frequency combs free electron lasers cooling and trapping of atoms quantum optics and quantum information

Atoms, Molecules and Photons Wolfgang Demtröder, 2010-11-25 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 Photons W. Demtröder, 2010-02-12 This introduction to Atomic and Molecular Physics explains how our present model of atoms and molecules has been developed over the last two centuries both 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 are offered to encourage readers to actively engage in experimentation

The Fundamentals of Atomic and Molecular Physics Robert L Brooks, 2014-07-08 The Fundamentals of Atomic and Molecular Physics is intended as an introduction to the field for advanced undergraduates who have taken quantum mechanics Each chapter builds upon the previous using the same tools and methods throughout As the students progress through the book their ability to use these tools will steadily increase along with their confidence in their efficacy The book treats the two electron atom as the simplest example of the many electron atom as opposed to using techniques that are not applicable to many electron atoms so that it is unnecessary to develop additional equations when turning to multielectron atoms such as carbon External fields are treated using both

perturbation theory and direct diagonalization and spontaneous emission is developed from first principles Only diatomic molecules are considered with the hydrogen molecular ion and neutral molecule treated in some detail This comprehensive coverage of the quantum mechanics of complex atoms and simple diatomic molecules developed from the very basic components is extremely useful for students considering graduate studies in any area of physics Introduction to Atomic and Nuclear Physics Henry Semat, 2012-12-06 to Atomic and Nuclear Physics Aerial view of the National Accelerator Laboratory Batavia Illinois Photograph courtesy of NAL Introduction to Atomic and Nuclear Physics HENRY SEMAT Professor Emeritus The City College of the City University of New York JOHN R ALBRIGHT The Florida State University FIFTH EDITION LONDON NEW YORK CHAPMAN AND HALL First edition 1939 Fifth edition first published in the U S A by Holt Rinehart and Winston Inc Fifth edition first published in Great Britain 1973 by Chapman and Hall Ltd 11 New Fetter Lane London EC4P 4EE Reprinted as a paperback 1978 Reprinted 1979 1983 1985 1939 1946 1954 1962 by Henry Semat 1972 by Holt Rinehart and Winston Inc Fletcher Son Ltd Norwich ISBN 13 978 0 412 15670 0 e ISBN 13 978 1 4615 9701 8 DOI 10 1007 978 1 4615 9701 8 All rights reserved No part of this book may be reprinted or reproduced or utilized in any form or by any electronic mechanical or other means now known or hereafter invented including photocopying and recording or in any information storage and retrieval system without permission in writing from the Publisher Atomic and Molecular Physics R Srivastava, 2011-11-14 ATOMIC AND MOLECULAR PHYSICS Introduction to Advanced Topics introduces advanced topics of Atomic and Molecular Collision Physics covering Atomic structure calculations Photoionization of atomic systems Electron atom collisions Ion atom collisions Collisions involving exotic particles Ultracold atoms and Bose Einstein condensation as well as Atomic data and Plasma diagnostics This volume is very useful to start research in theoretical and experimental Atomic and Molecular Physics The book is also helpful to those working in interrelated research areas like Laser physics Astrophysics and Plasma and Fusion research where such a background of theoretical Atomic Collision Physics is an integral part 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

Astronomical Spectroscopy: An Introduction To The Atomic And Molecular Physics Of Astronomical Spectroscopy (Third Edition) Jonathan Tennyson, 2019-04-17 The first two editions of this textbook have received well deserved high acclaims and this the third edition deserves no less Its explanations of the whole gamut of atomic and molecular spectroscopy provide a solid grasp of the theory as well as how to understand such spectra in practice It thus makes an ideal companion to books that start from the observational aspect of spectroscopy whether in the lab or at the telescope This new edition of Tennyson's book ought to be in the library of every astronomical department The Observatory Magazine It closely follows the course given to third year UCL undergraduates and the worked examples have surely been tested on students The last two chapters serve as an effective appendix on more specialised topics in atomic and molecular theory Contemporary Physics The third edition of Astronomical Spectroscopy examines the physics necessary to understand and interpret astronomical spectra It offers a step by step guide to the atomic and molecular physics involved in providing astronomical spectra starting from the relatively simple hydrogen atom and working its way to the spectroscopy of small molecules Based on UCL course material this book uses actual astronomical spectra to illustrate the theoretical aspects of the book to give the reader a feel for such spectra as well as an awareness of what information can be retrieved from them It also provides comprehensive exercises with answers given to aid understanding

Introduction to Atomic Physics Harley Reynolds, 2021-11-16 Atomic physics deals with the study of atoms as an isolated system of electrons and an atomic nucleus Atomic models in this discipline consist of a single nucleus that can be surrounded by one or more bound electrons These electrons exist in a notional shell around the nucleus and are considered to be in bound state Atomic physics deals with the study of processes such as ionization and excitation by photons and collisions with atomic particles The process of ionization involves an atom or molecule obtaining negative or positive charge by gaining or losing electrons Atomic physics is closely related to the fields of molecular and optical physics This book explores all the important aspects of atomic physics in the present day scenario The topics covered herein deal with the core subjects of this field The coherent flow of topics student friendly language and extensive use of examples make this book an invaluable source of knowledge

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

Molecular Physics and Elements of Quantum Chemistry Hermann Haken,Hans Christoph Wolf,2013-04-18 Since the publication of the first edition of this book there have been many important new developments in the field of molecular physics The new methods and results which are most significant for students are treated extensively in this second edition Among these are in particular single molecule spectroscopy and the field of molecular electronics which is in a stage of rapid development including the areas of electroluminescence and organic light emitting diodes In addition we have extended and corrected the earlier material in a number of places We have also included exercises in this new edition they will allow students to deepen their understanding and offer a basis for further individual study The complete solutions to the exercises can be found on the Internet under www.springeronline.com 3 540 40792 S We are grateful to Mr C D Bachem and Dr Th Schneider of the Springer Verlag for their continuous and very agreeable cooperation during the preparation of the book We thank our colleague Prof W D Brewer for his competent translation Stuttgart February 2004 H Haken H C Wolf Preface to the First Edition This textbook is intended for use by students of physics physical chemistry and theoretical chemistry The reader is presumed to have a basic knowledge of atomic and quantum physics at the level provided for example by the first few chapters in our book The Physics of Atoms and Quanta

Introduction to Atomic and Molecular Structure Jack Barrett,1970 [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

Introduction to Atomic and Nuclear Physics Henry Semat,John Rupp Albright,1973 **The Physics of Atoms and Quanta** Werner Haken,Hans C Wolf,W. D. Brewer,1996-10-09 **Theoretical Atomic Physics** Harald Siegfried Friedrich,2013-03-09 Atomic physics is a pioneering discipline at the forefront of theoretical and experimental physics It has played a major role in advancing our understanding of chaotic systems The 1997 Nobel Prize in Physics was

awarded for progress in cooling atoms to extremely low temperatures This new edition of Theoretical Atomic Physics takes into account recent developments and includes sections on semiclassical periodic orbit theory scaling properties for atoms in external fields threshold behaviour of ionization cross sections classical and quantum dynamics of two electron atoms and Bose Einstein condensation of atomic gases Moreover for students there are 48 problems with complete solutions which makes this course the most thorough introduction to the field available

Advances in Atomic, Molecular, and Optical Physics, 2018-06-09 Advances in Atomic Molecular and Optical Physics Volume 67 provides a comprehensive compilation of recent developments in a field that is in a state of rapid growth Topics covered include related applied areas such as atmospheric science astrophysics surface physics and laser physics with timely articles written by distinguished experts that contain relevant review materials and detailed descriptions of important developments in the field Presents the work of international experts in the field Contains comprehensive articles that compile recent developments in a field that is experiencing rapid growth with new experimental and theoretical techniques emerging Ideal for users interested in optics excitons plasmas and thermodynamics Topics covered include atmospheric science astrophysics and surface and laser physics amongst others

Curriculum Handbook with General Information Concerning ... for the United States Air Force Academy United States Air Force Academy, 2002

Modern Physics David Edmund Caro, 1962

Introduction to Quantum Mechanics Henrik Smith, 1991 The book is an introduction to quantum mechanics at a level suitable for the second year in a European university junior or senior year in an American college The matrix formulation of quantum mechanics is emphasized throughout and the student is introduced to Dirac notation from the start A number of major examples illustrate the workings of quantum mechanics Several of these examples are taken from solid state physics with the purpose of showing that quantum mechanics forms the common basis for understanding atoms molecules and condensed matter The book contains an introductory chapter which puts the concepts of quantum mechanics into a historical framework The solid state applications discussed in this text include the quantum Hall effect spin waves quantum wells and energy bands Other examples feature the two dimensional harmonic oscillator coherent states two electron atoms the ammonia molecule and the chemical bond A large number of homework problems are included

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