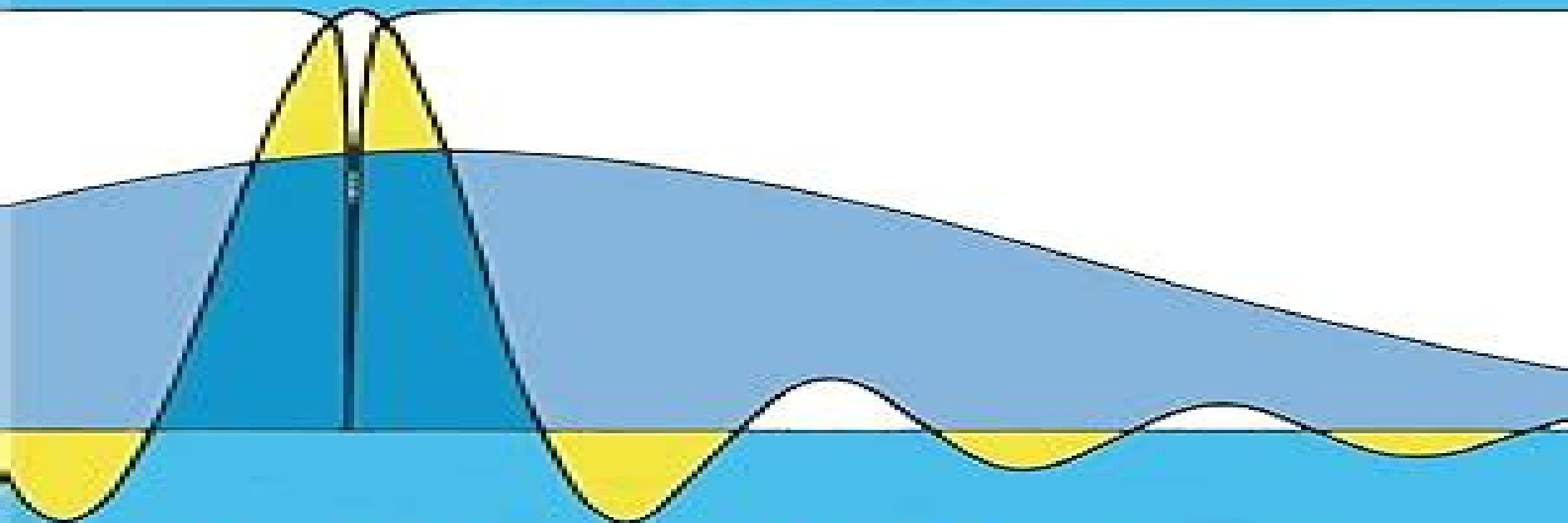


Optical Resonance and Two-Level Atoms



L. Allen and J. H. Eberly

Optical Resonance And Two Level Atoms

Claus F. Klingshirn



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Optical Resonance and Two-level Atoms Leslie Allen, J. H. Eberly, 1987-01-01 Clear comprehensive graduate level account of basic principles involved in all quantum optical resonance phenomena hailed in Contemporary Physics as a valuable contribution to the literature of non linear optics 53 illustrations

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Optical resonance and two-level atoms Leslie Allen, Joseph H. Eberly, 1987

Time-dependent Quantum Mechanics Of Two-level Systems James P Lavine, 2018-11-14 With both industrial and teaching experience the author explains the effects of time dependence in systems with two energy levels The book starts with time independent interactions and goes on to treat interactions with time dependent electric and magnetic fields Complete derivations are presented for each case so the reader understands how the solutions are found Both closed form and numerical solutions are treated and the calculations are compared with experimental data from the literature Numerous plots are provided to show how the solutions depend on the parameters of the interactions The book builds upon an undergraduate course in quantum mechanics and is useful for readers interested in magnetic resonance and quantum optics In addition this book is ideal for self study by students or researchers starting on two level systems The detailed derivations and plots should ease readers into the study of two level systems in a wide variety of settings

The Elements of Nonlinear Optics Paul N. Butcher, David Cotter, 1990 There has recently been a rapid growth of activity in nonlinear optics Effects such as frequency doubling stimulated Raman scattering phase conjugation and solitons are of great interest both for their fundamental properties and their many important applications in science and engineering It is mainly these applications especially in telecommunications and information processing that have stimulated the recent surge of activity This book is a self contained account of the most important principles of nonlinear optics Assuming only a familiarity with basic mathematics the fundamentals of nonlinear optics are fully developed from basic concepts The essential quantum mechanical apparatus is introduced and explained In later chapters the underlying ideas are illustrated by discussing particular experimental configurations and materials This book will be an invaluable introduction to the field for beginning graduates in physics or engineering and will provide an excellent overview and reference work for active researchers in the field

Advances In Multi-photon Processes And Spectroscopy, Vol 13 Marguerite Barzoukas, Albert A Villaeys, A S Sandhu, Yuki Yoshi Ohtsuki, K Nakagami, F P Lohner, Sheng-hsien Lin, Niels Engholm Henriksen, Michael Gronager, Debabrata Goswami, Yuichi Fujimura, Mireille Blanchard-desce, M Zouari, 2000-12-13 In view of the rapid growth in both experimental and theoretical studies of multi photon processes and multi photon spectroscopy of atoms ions and molecules in chemistry physics biology materials science etc it is desirable to publish an advanced series of volumes containing review papers that can be read not only by active

researchers in these areas but also by those who are not experts but who intend to enter the field The present series aims to serve this purpose Each review article is written in a self contained manner by the expert s in the area so that the reader can grasp the knowledge without too much preparation *Semiconductor Optics* Claus F. Klingshirn, 2007-03-07 The updated and enlarged new edition of this book provides an introduction to and an overview of semiconductor optics from the IR through the visible to the UV It includes coverage of linear and nonlinear optical properties dynamics magneto and electrooptics high excitation effects some applications experimental techniques and group theory The mathematics is kept as elementary as possible The subjects covered extend from physics to materials science and optoelectronics New or updated chapters add coverage of current topics while the chapters on bulk materials have been revised and updated

Encyclopedia of Modern Optics Bob D. Guenther, Duncan Steel, 2018-02-14 The Encyclopedia of Modern Optics Second Edition Five Volume Set provides a wide ranging overview of the field comprising authoritative reference articles for undergraduate and postgraduate students and those researching outside their area of expertise Topics covered include classical and quantum optics lasers optical fibers and optical fiber systems optical materials and light emitting diodes LEDs Articles cover all subfields of optical physics and engineering such as electro optical design of modulators and detectors This update contains contributions from international experts who discuss topics such as nano photonics and plasmonics optical interconnects photonic crystals and 2D materials such as graphene or holy fibers Other topics of note include solar energy high efficiency LED s and their use in illumination orbital angular momentum quantum optics and information metamaterials and transformation optics high power fiber and UV fiber lasers random lasers and bio imaging Addresses recent developments in the field and integrates concepts from fundamental physics with applications for manufacturing and engineering design Provides a broad and interdisciplinary coverage of specialist areas Ensures that the material is appropriate for new researchers and those working in a new sub field as well as those in industry Thematically arranged and alphabetically indexed with cross references added to facilitate ease of use *The Physics of Laser-Atom Interactions* Dieter Suter, 1997-10-13 A thorough introduction to the interaction of atoms with optical and magnetic fields for graduate students and researchers *Quantum Electronics* , 1979-11-15 **Quantum Electronics Recent Developments in Quantum Optics** R. Inguva, 2012-12-06 This volume is composed of papers invited and contributed presented at the International Conference on Coherence and Quantum Optics held at the University of Hyderabad January 5 January 10 1991 It has been organized by Professor Girish Agarwal and his colleagues at the School of Physics University of Hyderabad Hyderabad India under partial support from the Department of Science and Technology Government of India International Center for Theoretical Physics Trieste Italy and the National Science Foundation USA Without the untiring efforts of Prof Girish Agarwal and the members of his quantum office group the Conference and the present volume would not have been possible Some extraordinary circumstances resulted in a delay of the publication of the present volume Our sincere apologies to all the

authors We deeply regret the inconvenience caused due to the delay A debt of gratitude is due to Ms Kim Bella for the excellent typing job of the different versions and the final version of the manuscript It is a pleasure to acknowledge the efforts of Ms Pat Vann Mr Greg Safford and Mr Eric Katz of the Plenum Publishing without whose interest and persistence this volume would not have been possible v CONTENTS QUANTUM OPTICS THEORY The Quantum Mechanics of Particles in Time Dependent Quadrupole Fields Roy J Glauber 1 Localization of Photons in Random and Quasiperiodic Media S Dutta Gupta 15 Enhanced Fundamental Linewidth of a Laser Due to Outcoupling W A Hamel M P van Exter and J P Woerdman

Atoms and Molecules Interacting with Light Peter van der Straten, Harold Metcalf, 2016-02-04 This in depth textbook with a focus on atom light interactions prepares students for research in a fast growing and dynamic field Intended to accompany the laser induced revolution in atomic physics it is a comprehensive text for the emerging era in atomic molecular and optical science Utilising an intuitive and physical approach the text describes two level atom transitions including appendices on Ramsey spectroscopy adiabatic rapid passage and entanglement With a unique focus on optical interactions the authors present multi level atomic transitions with dipole selection rules and M1 E2 and multiphoton transitions Conventional structure topics are discussed in some detail beginning with the hydrogen atom and these are interspersed with material rarely found in textbooks such as intuitive descriptions of quantum defects The final chapters examine modern applications and include many references to current research literature The numerous exercises and multiple appendices throughout enable advanced undergraduate and graduate students to balance theory with experiment **Progress in Optics**

, 1993-05-10 A collection of comprehensive reviews in the field of optics The first article presents a review of recent investigations concerning multiphoton ionization of atoms in intense radiation fields and includes discussions on above threshold ionization generation of higher order harmonics of an intense field interacting with a gaseous medium and the role of chaotic dynamics in the interaction of atoms with monochromatic radiation A tutorial section on chaotic behaviour is also included The second article presents a review of modern developments regarding properties of light diffracted by gratings Both a phenomenological treatment and a macroscopic analysis are presented The following article reviews developments relating to optical amplifiers especially those which use semiconductors and optical fibres The article covers the operating principles fabrication and performance characteristics The next article reviews recent research on a promising new class of neural networks the so called adaptive multilayer optical networks Although still in the early states of developments these devices offer the possibility of implementing optical interconnections in three dimensions and they can be functionally equivalent to several thousand chips The fifth article deals with idealized but rather useful models of some atomic systems namely two level and four level atoms The analogy between a quantum two level atom and a classical model consisting of two coupled optical modes is discussed Extension of these considerations to optical band structure and to four level systems is also treated The concluding article deals thoroughly with free electron lasers in a physical way while minimum attention is

paid to organic generalities and mathematical rigour Dialogues Concerning Two New Sciences Galileo Galilei, 1954-01-01
 As enjoyable as it is important this classic encompasses 30 years of highly original experiments and theories Its lively
 readable expositions discuss dynamics elasticity sound strength of materials more 126 diagrams **Super-Intense**
Laser-Atom Physics IV H.G. Muller, M.V. Fedorov, 1996-05-31 Atoms in strong radiation fields are interesting objects for
 study and the research field that concerns itself with this study is a comparatively young one For a long period after the
 discovery of the photoelectric effect it was not possible to generate electro magnetic fields that did more than perturb the atom
 only slightly and first order perturbation theory could perfectly explain what was going on at those low intensities The
 development of the pulsed laser has changed this state of affairs in a rather dramatic way and fields can be applied that
 really have a large or even dominant influence on atomic structure In the latter case we speak of super intense fields Since the
 interaction between atoms and electromagnetic waves is characterized by many parameters other than the light intensity
 such as frequency ionization potential orbit time etc it is actually quite difficult to define what is exactly meant by the term
 super intense Obviously the term does not have an absolute meaning and intensity should always be viewed in relation to
 other properties of the system An atom in a radiation field can thus best be described in terms of various ratios of the
 quantities involved The nature of the system sometimes drastically changes if the value of one of these parameters exceeds a
 certain critical value and the new regime could be called super intense with respect to that parameter *Handbook of*
Optoelectronic Device Modeling and Simulation Joachim Piprek, 2017-10-12 Optoelectronic devices are now ubiquitous in our
 daily lives from light emitting diodes LEDs in many household appliances to solar cells for energy This handbook shows how
 we can probe the underlying and highly complex physical processes using modern mathematical models and numerical
 simulation for optoelectronic device design analysis and performance optimization It reflects the wide availability of powerful
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 modeling and simulation tasks The chapters comprise the know how of more than a hundred experts from all over the world
 The handbook is an ideal starting point for beginners but also gives experienced researchers the opportunity to renew and
 broaden their knowledge in this expanding field **Atoms In Electromagnetic Fields** Claude Cohen-tannoudji, 1994-10-31
 This book presents a collection of papers written during the last 33 years by Claude Cohen Tannoudji and his collaborators
 on various physical effects which can be observed on atoms interacting with electromagnetic fields It consists of a personal
 selection of review papers lectures given at schools as well as original experimental and theoretical papers Emphasis is put
 on physical mechanisms and on general approaches such as the dressed atom approach having a wide range of applications
 Various topics are discussed such as light shifts level crossing resonances multiphoton processes resonance fluorescence in
 intense laser fields photon correlations quantum jumps radiative corrections laser cooling and trapping This volume includes
 short introductions by the author Each paper presented in the volume is preceded by a short commentary giving its

motivations explaining how it fits with the general evolution of the research field and pointing out connections existing between works done at different periods Comprehensive Semiconductor Science and Technology ,2011-01-28

Semiconductors are at the heart of modern living Almost everything we do be it work travel communication or entertainment all depend on some feature of semiconductor technology Comprehensive Semiconductor Science and Technology Six Volume Set captures the breadth of this important field and presents it in a single source to the large audience who study make and exploit semiconductors Previous attempts at this achievement have been abbreviated and have omitted important topics Written and Edited by a truly international team of experts this work delivers an objective yet cohesive global review of the semiconductor world The work is divided into three sections The first section is concerned with the fundamental physics of semiconductors showing how the electronic features and the lattice dynamics change drastically when systems vary from bulk to a low dimensional structure and further to a nanometer size Throughout this section there is an emphasis on the full understanding of the underlying physics The second section deals largely with the transformation of the conceptual framework of solid state physics into devices and systems which require the growth of extremely high purity nearly defect free bulk and epitaxial materials The last section is devoted to exploitation of the knowledge described in the previous sections to highlight the spectrum of devices we see all around us Provides a comprehensive global picture of the semiconductor world Each of the work s three sections presents a complete description of one aspect of the whole Written and Edited by a truly international team of experts *Quantum Coherence Correlation and Decoherence in Semiconductor Nanostructures* Toshihide Takagahara,2003-02-10 Semiconductor nanostructures are attracting a great deal of interest as the most promising device with which to implement quantum information processing and quantum computing This book surveys the present status of nanofabrication techniques near field spectroscopy and microscopy to assist the fabricated nanostructures It will be essential reading for academic and industrial researchers in pure and applied physics optics semiconductors and microelectronics The first up to date review articles on various aspects on quantum coherence correlation and decoherence in semiconductor nanostructures Lectures on Light Stephen C. Rand,2016-05-26 This book attempts to bridge in one step the enormous gap between introductory quantum mechanics and the research front of modern optics and scientific fields that make use of light Hence while it is suitable as a reference for the specialist in quantum optics it will also be useful to the non specialists from other disciplines who need to understand light and its uses in research With a unique approach it introduces a single analytic tool namely the density matrix to analyze complex optical phenomena encountered in traditional as well as cross disciplinary research It moves swiftly in a tight sequence from elementary to sophisticated topics in quantum optics including laser tweezers laser cooling coherent population transfer optical magnetism electromagnetically induced transparency squeezed light quantum information science and cavity quantum electrodynamics A systematic approach is used that starts with the simplest systems stationary two level atoms then introduces atomic motion

adds more energy levels and moves on to discuss first second and third order coherence effects that are the basis for analyzing new optical phenomena in incompletely characterized systems Unconventional examples and original problems are used to engage even seasoned researchers in exploring a mathematical methodology with which they can tackle virtually any new problem involving light An extensive bibliography makes connections with mathematical techniques and subject areas which can extend the benefit readers gain from each section This revised edition includes over 40 new problems for a total of 110 original problems with an instructor s solution manual as well as completely new sections on quantum interference Fano resonance optical magnetism quantum computation laser cooling of solids and irreducible representation of magnetic interactions Literature references to current ultrafast science nonlinear optics x ray and high field physics topics have doubled at the end of chapters 5 6 and 7 the subject index has also been significantly expanded

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