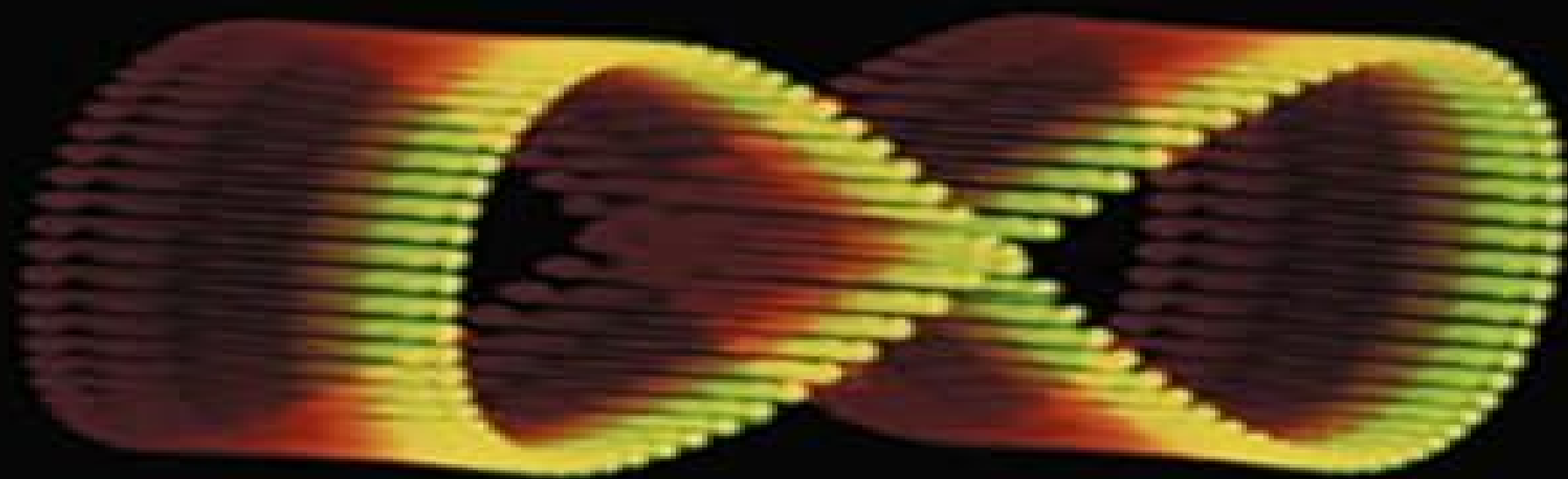


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Fundamentals of **Quantum Mechanics**

For Solid State Electronics and Optics



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Fundamentals Of Quantum Electronics

Maria Chekhova, Sergey Kulik



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Fundamentals of Quantum Electronics Richard H. Pantell, Harold E. Puthoff, 1969 Fundamentals of Quantum Electronics Richard H. Pantell, Harold E. Puthoff, 1969 Principles of Quantum Electronics Dietrich Marcuse, 2012-12-02

Principles of Quantum Electronics focuses on the concept of quantum electronics as the application of quantum theory to engineering problems. It examines the principles that govern specific quantum electronics devices and presents their theoretical applications to typical problems. Comprised of 10 chapters, this book starts with an overview of the Dirac formulation of quantum mechanics. This text then considers the derivation of the formalism of field quantization and discusses the properties of photons and phonons. Other chapters examine the interaction between the electromagnetic field and charged particles. This book discusses as well the interaction of radiation with free and bound electrons with focus on the spontaneous and stimulated emission of radiation by bound electrons. The final chapter provides the investigation that Maxwell's theory can be regarded as the quantum theory of a single photon. This book is a valuable resource for graduate students, specialists, and engineers who are interested in the field of quantum electrodynamics.

Quantum Electronics John Robinson Pierce, Edward E. David, 1956 *Physical Foundations Of Quantum Electronics* By David Klyshko, Maria Chekhova, Sergey Kulik, 2011-04-21

This concise textbook introduces a graduate student to the various fields of physics related to the interaction between radiation and matter. The scope of the book is very broad, ranging from nonlinear to quantum optics and from quantum transitions in atoms to the dispersion of polaritons in continuous media. The author, Professor David Klyshko (1929-2000), is one of the founders of modern quantum optics, renowned for his theory of Spontaneous Parametric Down Conversion (SPDC) and its applications in quantum metrology and the optics of nonclassical light. Most parts of the book contain the lecture courses taught by David Klyshko at Moscow State University, namely quantum electronics, nonlinear optics, and quantum optics. In every section, the main focus is on observable effects and their physical interpretation. The book emphasizes analogies and relations between seemingly different phenomena and different fields of quantum electronics. Additional commentaries written by Profs. Maria Chekhova and Sergey Kulik analyze more recent developments in the corresponding fields of physics.

Quantum Electronics: the Fundamentals of Transistors and Lasers John R. Pierce, 1966 *Intense Resonant Interactions in Quantum Electronics* V.M. Akulin, N.V. Karlov, 2012-12-06

This book is a course of lectures given for senior students at the Moscow Institute of Physics and Technology. For those who have graduated in the USSR, this information should be sufficient to give an idea of the level and the manner in which the subject matter is presented. On the other hand, readers outside of this country may never have heard about this well-known Soviet institution, and so we would like to say a few words about it now. The Moscow Institute of Physics and Technology (MFTI or Fiztekhn) was founded in 1947 as the result of a special directive of Stalin in order to supply the space and nuclear program with highly educated experts. The best scientists in the country were involved in the foundation process. They invented an effective and

flexible educational system that includes basic education according to an university program followed by specialization at leading scientific centers Being organized initially as a department of Moscow State University MFTI recently separated into an independent institution In the sixties it lost its mainly top secret and military character and became the most prestigious place in the country for an education in physics The political changes of the last few years have opened it to contacts with other countries The course of lectures comprising this book is dedicated to the subject of the intense resonant interaction of laser radiation with matter and contains a significant part of the Ph D *Introduction to Quantum Electronics* H. G. Unger, 2017-05-04 *Introduction to Quantum Electronics* is based on a one semester lecture of electrical engineering for German students The book is an introduction to the fundamentals of lasers and masers and a presentation of the principles of physics their theory and methods of analysis that seek to analyze explain and quantify related important phenomena The properties of a laser is then discussed the author comparing it to the properties of the maser Although masers are based on the same physical properties as that of the lasers masers amplify microwaves by induced emission How the laser is amplified its power and frequency of oscillation and which media are suitable for lasers are analyzed Descriptions of the laser take more emphasis as it is considered to have more technical applications than the maser An example given is the operation of the gas laser because it exhibits coherence in time and space considered as the most important quality of laser beams Physicists students and academicians in the field of electrical engineering and quantum electronics will find that this book addresses many of their interests **Principles of Lasers** Orazio Svelto, 2010-03-16 This fifth edition of *Principles of Lasers* includes corrections to the previous edition as well as being the first available as an ebook Its mission remains to provide a broad unified description of laser behavior physics technology and applications *Introduction to Nonlinear Laser Spectroscopy 2e* Marc Levenson, 2012-12-02 *Introduction to Nonlinear Laser Spectroscopy Revised Edition* presents the most useful nonlinear spectroscopy techniques at a level accessible to spectroscopists and graduate students unfamiliar with nonlinear optics This book discusses the principles of nonlinear laser spectroscopy Organized into seven chapters this edition starts with an overview of the stimulated Raman effect and coherent anti Stokes Raman spectroscopy which can be used in a varied way to generate radiation in the ultraviolet and vacuum ultraviolet areas This text then explains the exciting possibilities started by saturated absorption and related techniques including improved spectroscopic precision studies of collisional dynamics and better measurements of fundamental constants and of basic units Other chapters examine Hamiltonian relaxation which describes all of the processes that return the ensemble to thermal equilibrium The final chapter deals with the method of infrared spectrophotography which combines efficient detection time resolution and coherent infrared Spectroscopists and graduate students will find this book extremely useful **Introduction to Nonlinear Laser Spectroscopy** Marc Levenson, 2012-12-02 *Introduction to Nonlinear Laser Spectroscopy* focuses on the principles of nonlinear laser spectroscopy This book discusses the experimental techniques of nonlinear optics and spectroscopy

Comprised of seven chapters this book starts with an overview of the stimulated Raman effect and coherent anti Stokes Raman spectroscopy which can be used in a varied way to generate radiation in the ultraviolet and vacuum ultraviolet areas This text then explains the simplest quantum mechanical system consisting of an isolated entity with energy eigenstates

Photon-Atom Interactions Mitchel Weissbluth,2012-12-02 This book provides an introduction to the body of theory shared by several branches of modern optics nonlinear optics quantum electronics laser physics and quantum optics with an emphasis on quantum and statistical aspects It is intended for well prepared undergraduate and graduate students in physics applied physics electrical engineering and chemistry who seek a level of preparation of sufficient maturity to enable them to follow the specialized literature Optical Metamaterials: Qualitative Models Arkadi Chipouline,Franko Küppers,2018-12-28 This textbook bridges the gap between university courses on electrodynamics and the knowledge needed to successfully address the problem of electrodynamics of metamaterials It appeals to both experimentalists and theoreticians who are interested in the physical basics of metamaterials and plasmonics Focusing on qualitative fundamental treatment as opposed to quantitative numerical treatment it covers the phenomena of artificial magnetization at high frequencies and discusses homogenization procedures and the basics of quantum dynamics in detail By considering different phenomena it creates a self consistent qualitative picture to explain most observable phenomena This allows readers to develop a better understanding of the concepts and helps to create a conceptual approach which is especially important in educational contexts This clearly written book includes problems and solutions for each chapter which can be used for seminars and homework as well as qualitative models that are helpful to students Interactions between Electromagnetic Fields and Matter Karl-Heinz Steiner,2016-07-29 Interactions between Electromagnetic Fields and Matter deals with the principles and methods that can amplify electromagnetic fields from very low levels of signals This book discusses how electromagnetic fields can be produced amplified modulated or rectified from very low levels to enable these for application in communication systems This text also describes the properties of matter and some phenomenological considerations to the reactions of matter when an action of external fields results in a polarization of the particle system and changes the bonding forces existing in the matter This book considers the above phenomena in detail by explaining matter as a conglomeration of charged mass points in the electromagnetic field Quantum mechanics and Maxwell s theory can then account for the precise description of the interactions between the electromagnetic fields and matter This book then describes special processes such as 1 the static and quasistatic interactions and 2 dynamic processes particularly the resonance process This text also defines a general form for electric and magnetic reactions using the generalized field equation This book also cites the anharmonic oscillator and the single spin as different examples of electric and magnetic dipole interactions This text is suitable for electrical engineers radio technicians physicists whose work is in quantum mechanics and engineers interested in electro magnetism theory **Quantum Electronics** V. M. Fain,Ya. I. Khanin,2016-04-20 Quantum Electronics Volume 2

Maser Amplifiers and Oscillators deals with the experimental and theoretical aspects of maser amplifiers and oscillators which are based on the principles of quantum electronics. It shows how the concepts and equations used in quantum electronics follow from the basic principles of theoretical physics. Comprised of three chapters, this volume begins with a discussion on the elements of the theory of quantum oscillators and amplifiers working in the microwave region along with the practical achievements in this field. Attention is paid to two level paramagnetic masers and the dependence of the form of the emitted signal on the different parameters. The maser oscillator operating with a beam of active molecules is described in the next chapter which considers the three level paramagnetic oscillator, the molecular beam oscillator and the two level solid state quantum oscillator. The final chapter is devoted to lasers including gas lasers and solid state lasers. Methods of obtaining negative temperatures are described together with the elements of laser theory and the kinetics of oscillation processes in solid state lasers. This book is intended for university students with knowledge of theoretical physics particularly quantum mechanics.

Ultra-high Frequency Linear Fiber Optic Systems Kam Y. Lau, 2011-05-12 This book provides an in depth treatment of both linear fiber optic systems and their key enabling devices. It presents a concise but rigorous treatment of the theory and practice of analog linear fiber optics links and systems that constitute the foundation of Hybrid Fiber Coax infrastructure in present day CATV distribution and cable modem Internet access. Emerging applications in remote fiber optic feed for free space millimeter wave enterprise campus networks are also described. Issues such as dispersion and interferometric noise are treated quantitatively and means for mitigating them are explained. This broad but concise text will thus be invaluable not only to students of fiber optics communication but also to practicing engineers. To the second edition of this book important new aspects of linear fiber optic transmission technologies are added such as high level system architectural issues, algorithms for deriving the optimal frequency assignment, directly modulated or externally modulated laser transmitters and the use of Erbium doped fiber amplifier EDFA in linear fiber optic systems. Significant examples of field deployed military systems enabled by linear fiber optic links are described in an appendix.

Introduction to Quantum Electronics and Nonlinear Optics Vitaliy V. Shtykov, Sergey M. Smolskiy, 2020-03-21 This textbook based on the authors' class tested material is accessible to students at the advanced undergraduate and graduate level in physics and engineering. While its primary function is didactic, this book's comprehensive choice of topics and its clear and authoritative synthesis of ideas make it a useful reference for researchers, device engineers and course instructors who wish to consolidate their knowledge of this field. The book takes the semi-classical approach where light is treated as a wave in accordance with the classical Maxwell equations while matter is governed by quantum theory. It begins by introducing the postulates and mathematical framework of quantum theory followed by the formalism of the density matrix which allows the transition from microscopic quantum quantities to macroscopic classical ones. Consequently, the equations describing the reaction of matter to the electromagnetic field in the form of polarization, magnetization and current are derived. These equations together with

the Maxwell equations form the complete system of equations sufficient to model a wide class of problems surrounding linear and nonlinear interactions of electromagnetic fields with matter. The nonlinear character of the governing equations determines parameters of the steady state mode of the quantum generator and is also demonstrated in harmonic generation via propagation of laser radiation in various media. The touchstone description of magnetic phenomena will be of interest to scientists who deal with applications of magneto resonance phenomena in biology and medicine. Other advanced topics covered include electric dipole transitions, magnetic dipole transitions, plasma transitions and the devices that can be based on these and other electro optical and nonlinear optical systems. This textbook features numerous exercises, some of which are investigatory and some of which require computational solutions.

Superconducting Quantum Electronics Volkmar Kose, 2012-12-06. With the surprising discovery of superconductivity at temperatures above 100 K, this field was not only brought into the public eye but also stimulated research in universities, scientific institutions and industry, thus continuing the fascinating development which began with the discovery of the Josephson effect in the sixties. Cryoelectronics has become a special branch of cryophysics and cryotechnics and today plays a prominent role whenever high resolution and precision measurements are required. Motivated by this development, seven years ago scientists working in cryoelectronics in the Federal Republic of Germany felt the necessity for regular meetings allowing a free exchange of ideas and results. Achieved Seminars under the title of Kryoelektronische Bauelemente were held for the first time at the Physikalisch Technische Bundesanstalt in Braunschweig in 1982 on the occasion of the 100th anniversary of the birth of Walther Meißner, a pioneer in superconductivity. Since then meetings have been held every year at different venues in Germany. It is now felt that the status of this field necessitates a review of the results of the past, a description of the current state of the art and a discussion of future perspectives. This book, entitled SUPERCONDUCTING QUANTUM ELECTRONICS, is a collection of invited lectures and contributions which will inform the reader on the most interesting problems involving fundamentals, sensitive detectors and precision metrology being studied by different groups.

Fundamentals of Quantum Mechanics Chung Liang Tang, 2005. The basic concepts of quantum mechanics are explained in this book in a concise and accessible manner. Illustrating real world applications in many diverse fields, it is suitable for students in electrical engineering, materials science and applied physics. It contains many homework problems and worked examples with solutions available to instructors.

Quantum Electronics: A Treatise Herbert Rabin, 2012-12-02. Quantum Electronics A Treatise Volume I: Nonlinear Optics. Part A deals with the theoretical and experimental aspects of the nonlinear optical susceptibilities and process. This volume is composed of two parts encompassing seven chapters. After a brief overview of the field, this book goes on discussing experimental determination of the susceptibility coefficients and numerical values for a variety of materials appearing in the nonlinear constitutive relationships. The second part describes several nonlinear optical phenomena to which these nonlinear susceptibilities give rise. The characteristics of these basic nonlinear interactions are also presented in

a unified and cohesive manner This book is of value to quantum electronics scientists engineers and researchers

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