

SOLID STATE AND QUANTUM THEORY FOR OPTOELECTRONICS

Michael A. Parker



Solid State And Quantum Theory For Optoelectronics

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Solid State And Quantum Theory For Optoelectronics:

Solid State and Quantum Theory for Optoelectronics Michael A. Parker, 2009-12-16 While applications rapidly change one to the next in our commercialized world fundamental principles behind those applications remain constant So if one understands those principles well enough and has ample experience in applying them he or she will be able to develop a capacity for reaching results via conceptual thinking rather than having to always rely on models to test various conditions In Solid State and Quantum Theory for Optoelectronics Michael Parker provides a general conceptual framework for matter that leads to the matter light interaction explored in the author's Physics of Optoelectronics CRC Press Instead of overburdening readers with the definition theorem proof format often expected in mathematics texts this book instructs readers through the development of conceptual pictures Employing a proven pedagogic approach as rigorous as it is intuitive Professor Parker Provides several lead ins to the quantum theory including a brief review of Lagrange and Hamilton's approach to classical mechanics and the fundamental quantum link with Hilbert space Demonstrates the Schrödinger wave equation from the Feynman path integral Discusses standard topics such as the quantum well harmonic oscillator representations perturbation theory and spin Expands discussion from the density operator and its applications to quantum computing and teleportation Provides the concepts for ensembles and microstates in detail with emphasis on the derivation of particle population distributions across energy levels Professor Parker includes problems to help readers understand and internalize the material But just as important the working through of these problems will help readers develop the sort of approach that instead of wholly relying on models enables them to extrapolate solutions guided by informed intuition developed over the course of formal study and laboratory experiment It is the kind of conceptual thinking that will allow readers to move with deeper understanding from optical applications to more theoretical topics in physics

Fundamentals of Quantum Mechanics C. L. Tang, 2005-06-23 The basic concepts of quantum mechanics are explained in this book in a concise and easy to read manner leading toward applications in solid state electronics and optics Following a logical sequence the book focuses on key ideas and is conceptually and mathematically self contained *Physics of Optoelectronics* Michael A. Parker, 2018-10-03 Physics of Optoelectronics focuses on the properties of optical fields and their interaction with matter Understanding that lasers LEDs and photodetectors clearly exemplify this interaction the author begins with an introduction to lasers LEDs and the rate equations then describes the emission and detection processes The book summarizes and reviews the mathematical background of the quantum theory embodied in the Hilbert space These concepts highlight the abstract form of the linear algebra for vectors and operators supplying the pictures that make the subject more intuitive A chapter on dynamics includes a brief review of the formalism for discrete sets of particles and continuous media It also covers the quantum theory necessary for the study of optical fields transitions and semiconductor gain This volume supplements the description of lasers and LEDs by examining the fundamental nature of the light that these

devices produce It includes an analysis of quantized electromagnetic fields and illustrates inherent quantum noise in terms of Poisson and sub Poisson statistics It explains matter light interaction in terms of time dependent perturbation theory and Fermi's golden rule and concludes with a detailed discussion of semiconductor emitters and detectors *Introduction to Optical and Optoelectronic Properties of Nanostructures* Vladimir V. Mitin, Viacheslav A. Kochelap, Mitra Dutta, Michael A. Strosio, 2019-03-21 Get to grips with the fundamental optical and optoelectronic properties of nanostructures This comprehensive guide makes a wide variety of modern topics accessible and includes up to date material on the optical properties of monolayer crystals plasmonics nanophotonics UV quantum well lasers and wide bandgap materials and heterostructures The unified multidisciplinary approach makes it ideal for those in disciplines spanning nanoscience physics materials science and optical electrical and mechanical engineering Building on work first presented in Quantum Heterostructures Cambridge 1999 this volume draws on years of research and teaching experience Rigorous coverage of basic principles makes it an excellent resource for senior undergraduates and detailed mathematical derivations illuminate concepts for graduate students researchers and professional engineers The examples with solutions included in the text and end of chapter problems allows the students to use this text to enhance their understanding Elements of Solid State Physics Michael N. Rudden, John Wilson, 1993-06-07 Elements of Solid State Physics Second Edition M N Rudden and J Wilson University of Northumbria at Newcastle Newcastle upon Tyne UK This textbook provides a basic introduction to the principles of solid state physics and semiconductor devices and will prove essential for first and second year students of physics materials science and electrical electronic engineering courses It assumes no prior knowledge of quantum or statistical mechanics and relies on simple models to illustrate the physical principles However the opportunity has been taken in this edition to extend the concept of energy bands to a consideration of $E-k$ curves and certain new material has been added notably relating to superconductivity and optoelectronic devices including lasers following significant developments in these areas Elements of Solid State Physics Second Edition presents the student with an essentially non mathematical approach to the subject Arranged in a logical sequence with many clear illustrations each chapter has a number of worked examples and discussion points as well as questions and answers Readers of this fully revised and updated edition will receive a thorough grounding in the principles of solid state physics and should have sufficient knowledge about modern electronic devices to proceed to more advanced texts in this area Main Contents Some Aspects of Modern Physics Structure of Crystalline Solids Theories of Conduction and Magnetism Energy Bands in Solids Quantum Theory of Conduction Semiconductor Devices **Optoelectronics** Sergei Pyshkin, John Ballato, 2013-01-16 Optoelectronics Advanced Materials and Devices is a second edition following the initial Optoelectronics Materials and Techniques book published in 2011 as part of the InTech collection of international works on optoelectronics Optoelectronics as the discipline devoted to the study and application of electronic devices that emit detect and otherwise control light has widely proliferated globally

and enabled many of today's modern conveniences. Because of this ubiquity, new applications and novel optical phenomena continue to drive innovation. Accordingly, as with the first book of the collection, this book covers recent achievements by specialists around the world. The growing number of countries participating in this endeavor includes now Brazil, Canada, China, Egypt, France, Germany, India, Italy, Japan, Malaysia, Mexico, Moldova, Morocco, Netherlands, Portugal, Romania, Saudi Arabia, South Korea, Taiwan, Ukraine, USA, and Vietnam, as well as joint participation of the US and Moldova scientists in the edition of this book. And writing one of its Chapters testifies to the unifying effect of science. An interested reader will find in the book the description of properties and applications employing organic and inorganic materials such as different polymers, oxides, and semiconductors, as well as the methods of fabrication and analysis of operation and regions of application of modern optoelectronic devices.

The Physics of Semiconductors Kevin F. Brennan, 1999-02-13. Modern fabrication techniques have made it possible to produce semiconductor devices whose dimensions are so small that quantum mechanical effects dominate their behavior. This book describes the key elements of quantum mechanics, statistical mechanics, and solid state physics that are necessary in understanding these modern semiconductor devices. The author begins with a review of elementary quantum mechanics and then describes more advanced topics such as multiple quantum wells. He then discusses equilibrium and nonequilibrium statistical mechanics. Following this introduction, he provides a thorough treatment of solid state physics covering electron motion in periodic potentials, electron-phonon interaction, and recombination processes. The final four chapters deal exclusively with real devices such as semiconductor lasers, photodiodes, flat panel displays, and MOSFETs. The book contains many homework exercises and is suitable as a textbook for electrical engineering, materials science, or physics students taking courses in solid state device physics. It will also be a valuable reference for practising engineers in optoelectronics and related areas.

Physical Foundations of Solid-State Devices E. Fred Schubert, 2022-02-22. It is beneficial for technical personnel working in the field of microelectronics, optoelectronics, and photonics to get a good understanding of the physical foundations of modern semiconductor devices. Questions that technical personnel may ask are: How are electrons propagating in the periodic potential of a crystal lattice? What are the foundations of semiconductor heterostructure devices? How does quantum mechanics relate to semiconductor heterostructures? This book tries to answer questions such as these. The book provides a basis for the understanding of modern semiconductor devices that have dimensions in the nanometer range that is comparable to the electron de Broglie wavelength. For such small spatial dimensions, classical physics no longer gives a full description of physical processes. The inclusion of quantum mechanical principles becomes mandatory and provides a useful description of common physical processes in electronic, optoelectronic, and photonic devices. Chapters 1 to 11 teach the quantum mechanical principles, including the postulates of quantum mechanics, operators, the uncertainty principle, the Schrödinger equation, non-periodic and periodic potentials, quantum wells, and perturbation theory. Chapters 12 to 20 apply these principles to semiconductor devices and discuss the density of states.

semiconductor statistics carrier concentrations doping tunneling and aspects of heterostructure devices The 2022 edition is a complete revision of the 2015 edition and also updates the formatting to make it easily viewable with electronic display devices *Graduate Studies* ,1994 *Edition XII, the Update, 1997/98* ,1996 **Which Degree Guide** ,2001

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 *Optics Education* ,2001 **Which Degree in Britain** ,1999 A comprehensive guide to full time degree courses institutions and towns in Britain [Physics and Simulation of Optoelectronic Devices](#) ,1998 *Quantum Theory of the Optical and Electronic Properties of Semiconductors* Hartmut Haug,Stephan W Koch,1993-04-16 This substantially revised second edition of the Quantum Theory of the Optical and Electronic Properties of Semiconductors presents the basic elements needed to understand and engage in research in semiconductor physics In this edition misprints have been corrected and new and more detailed material has been added In order to treat the valence band structure of semiconductors an introduction to the k p theory and the related description in terms of the Luttinger Hamiltonian was included An introductory chapter on mesoscopic semiconductor structures was added which discusses the envelope function approximation and the modification caused by the spatial quantum confinement In many chapters the results are developed in parallel first for bulk material and then for quasi two dimensional quantum wells and for quasi one dimensional quantum wires Semiconductor quantum dots are treated in a separate chapter The discussion of time dependent and coherent phenomena in semiconductors has been considerably extended by including a section dealing with the theoretical description of photon echoes in semiconductors After the discussion of semiconductor laser physics optical bistability and electroabsorption in semiconductors a new chapter on magneto absorption has been added in which magneto excitons and magneto plasmas in two dimensional systems are discussed The chapter on electron kinetics due to the interaction with longitudinal optical phonons has been extended and a discussion on carrier carrier collisions has been added to the chapter dealing with the semiconductor Bloch equations The material is presented in sufficient detail for graduate students and researchers who have a general background in quantum mechanics Request Inspection Copy Contents Oscillator Model Atom in a Classical Light Field Periodic Lattice of Atoms Free Carrier Transitions Mesoscopic Semiconductor Structures Ideal Quantum Gases Interacting Electron Gas Plasmons and Plasma Screening Retarded Green's Function for Electrons Excitons Polaritons Semiconductor Bloch Equations Optical Quasi Equilibrium Nonlinearities Optical Bistability The Semiconductor Laser Coherent Effects in Semiconductors Free Carrier Electroabsorption Exciton Electroabsorption Magneto Optics Semiconductor Quantum Dots Kinetics with Phonon Scattering Appendix A Field Quantization Appendix B Nonequilibrium Green's Functions Readership Solid state physicists

engineers materials and optical scientists **Which Degree?** ,1997 *Directory of Selected Chinese Universities and Colleges Open to Foreign Students* Binsan Xiong,1993 **Theory of Optical Processes in Semiconductors** Prasanta Kumar Basu,P. K. Basu,2003 Semiconductor optoelectronic devices are at the heart of all information generation and processing systems and are likely to be essential components of future optical computers With more emphasis on optoelectronics and photonics in graduate programmes in physics and engineering there is a need for a text providing a basic understanding of the important physical phenomena involved Such a training is necessary for the design optimization and search for new materials devices and application areas This book provides a simple quantum mechanical theory of important optical processes i e band to band intersubband and excitonic absorption and recombination in bulk quantum wells wires dots superlattices and strained layers including electro optic effects The classical theory of absorption quantization of radiation and band picture based on k p perturbation has been included to provide the necessary background Prerequisites for the book are a knowledge of quantum mechanics and solid state theory Problems have been set at the end of each chapter some of which may guide the reader to study processes not covered in the book The application areas of the phenomena are also indicated **Research Fields in Physics** ,1997 The latest edition of an established reference work for the physics community presenting comprehensive details of research and development work in physics undertaken at universities in Britain and Ireland The entry for each institution department outlines the research programmes and lists the senior staff involved Comprehensively cross referenced by a subject index this directory facilitates channels of communication between research groups and is particularly useful to overseas physicists and to those working in industrial or government research laboratories It also serves as a useful guide to postgraduate postdoctoral and sabbatical opportunities

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