

Jagdeep Shah

Ultrafast Spectroscopy of Semiconductors and Semiconductor Nanostructures

Second Enlarged Edition



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Ultrafast Spectroscopy Of Semiconductors And Semiconductor Nanostructures Springer Series In Solid State Sciences

Ulrich Rössler



Ultrafast Spectroscopy Of Semiconductors And Semiconductor Nanostructures Springer Series In Solid State Sciences:

Ultrafast Spectroscopy of Semiconductors and Semiconductor Nanostructures Jagdeep Shah, 2013-11-11

Ultrafast Spectroscopy of Semiconductors and Semiconductor Nanostructures Jagdeep Shah, 1999-06-01

Ultrafast spectroscopy of semiconductors and semiconductor nanostructures is currently one of the most exciting areas of research in condensed matter physics. Remarkable recent progress in the generation of tunable femtosecond pulses has allowed direct investigation of the most fundamental dynamical processes in semiconductors. This second edition presents the most striking recent advances in the techniques of ultrashort pulse generation and ultrafast spectroscopy; it discusses the physics of relaxation, tunneling and transport dynamics in semiconductors and semiconductor nanostructures following excitation by femtosecond laser pulses. *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. **Solid State Theory** Ulrich

Rössler, 2013-06-29 *Solid State Theory: An Introduction* is a textbook for graduate students of physics and material sciences. Whilst covering the traditional topics of older textbooks, it also takes up new developments in theoretical concepts and materials that are connected with such breakthroughs as the quantum Hall effects, the high T_c superconductors and the low dimensional systems realized in solids. Thus, besides providing the fundamental concepts to describe the physics of the electrons and ions comprising the solid, including their interactions, the book casts a bridge to the experimental facts and gives the reader an excellent insight into current research fields. A compilation of problems makes the book especially valuable to both students and teachers. *Ultrafast Physical Processes in Semiconductors*, 2000-10-06

Since its inception in 1966, the series of numbered volumes known as *Semiconductors and Semimetals* has distinguished itself through the careful selection of well-known authors, editors and contributors. The Willardson and Beer series, as it is widely known, has succeeded in producing numerous landmark volumes and chapters. Not only did many of these volumes make an impact at the time of their publication, but they continue to be well-cited years after their original release. Recently, Professor Eicke R. Weber of the University of California at Berkeley joined as a co-editor of the series. Professor Weber, a well-known expert in the field of semiconductor materials, will further contribute to continuing the series' tradition of publishing timely, highly relevant and long-impacting volumes. Some of the recent volumes, such as *Hydrogen in Semiconductors*, *Imperfections in III-V Materials*, *Epitaxial Microstructures*, *High-Speed Heterostructure Devices*, *Oxygen in Silicon* and others, promise that this tradition will

be maintained and even expanded Reflecting the truly interdisciplinary nature of the field that the series covers the volumes in Semiconductors and Semimetals have been and will continue to be of great interest to physicists chemists materials scientists and device engineers in modern industry Ultrafast Photonics A. Miller,D.T. Reid,D.M. Finlayson,2019-08-22 Ultrafast photonics has become an interdisciplinary topic of high international research interest because of the spectacular development of compact and efficient lasers producing optical pulses in the femtosecond range This book brings together contributions from experts at major research initiatives around the world to address all aspects of this very active field Topics covered range from the fundamental physics of optical interactions and material properties through to new system concepts for ultrahigh capacity data transfer and processing using femtosecond pulses with emphasis on areas of specific scientific breakthroughs and subsequent technological advances **Semiconductor Optics 2** Heinz Kalt,Claus F. Klingshirn,2024-03-16 This book provides an introduction to and an overview of the multifaceted area of dynamics and nonlinearities related to optical excitations in semiconductors It is a revised and significantly extended edition of the well established book by C Klingshirn split into two volumes and restructured to make it more concise Inserts on important experimental techniques reference to topical research and novel materials as well as consideration of photonic applications support research oriented teaching and learning This book reviews nonlinear optical properties and many body phenomena evoked by high densities of quasi particles in semiconductors Coherent dynamics and relaxation of optical excitations carriers excitons electron hole plasmas etc as well as condensation phenomena are elucidated in these materials A broad overview is provided of seminal research results augmented by detailed descriptions of the relevant experimental techniques e g ultrafast spectroscopy four wave mixing and the Hanbury Brown and Twiss experiment Offering a comprehensive introduction to hot topics in current research polariton condensates valley coherence and single photons to name a few it also discusses applications of the described physical concepts in topical areas such as quantum information photonics spintronics and optoelectronics Covering subjects ranging from physics to materials science and optoelectronics the book provides a lively and comprehensive introduction to semiconductor optics beyond the linear regime With many problems chapter introductions schematic depictions of physical phenomena as well as boxed inserts and a detailed index it is suitable for use in graduate courses in physics and neighboring sciences like material science and optical communication It is also a valuable reference resource for doctoral and advanced researchers Spectroscopy of Systems with Spatially Confined Structures Baldassare di Bartolo,2012-12-06 Nanometer scale physics is progressing rapidly the top down approach of semiconductor technology will soon encounter the scale of the bottom up approaches of supramolecular chemistry and spatially localized excitations in ionic crystals Advances in this area have already led to applications in optoelectronics More may be expected This book deals with the role of structure confinement in the spectroscopic characteristics of physical systems It examines the fabrication measurement and understanding of the relevant structures It reports progress in the

theory and in experimental techniques starting with the consideration of fundamental principles and leading to the frontiers of research The subjects dealt with include such spatially resolved structures as quantum wells quantum wires quantum dots and luminescence in both theoretical and practical terms Fundamentals of Semiconductors Peter YU,Manuel Cardona,2010-04-07 Excellent bridge between general solid state physics textbook and research articles packed with providing detailed explanations of the electronic vibrational transport and optical properties of semiconductors The most striking feature of the book is its modern outlook provides a wonderful foundation The most wonderful feature is its efficient style of exposition an excellent book Physics Today Presents the theoretical derivations carefully and in detail and gives thorough discussions of the experimental results it presents This makes it an excellent textbook both for learners and for more experienced researchers wishing to check facts I have enjoyed reading it and strongly recommend it as a text for anyone working with semiconductors I know of no better text I am sure most semiconductor physicists will find this book useful and I recommend it to them Contemporary Physics Offers much new material an extensive appendix about the important and by now well established deep center known as the DX center additional problems and the solutions to over fifty of the problems at the end of the various chapters **II-VI Semiconductor Materials and their Applications** Maria C. Tamargo,2018-05-04 II VI Semiconductor Materials and Their Applications deals with II VI compound semiconductors and the status of the two areas of current optoelectronics applications blue green emitters and IR detectors Specifically the growth charactrtization materials and device issues for these two applications are described Emphasis is placed on the wide bandgap emitters where much progress has occurred recently The book also presents new directions that have potential future applications in optoelectronics for II VI materials In particular it discusses the status of dilute magnetic semiconductors for mango optical and electromagnetic devices nonlinear optical properties photorefractive effects and new materials and physics phenomena such as self organized low dimensional structures II_VI Semiconductor Materials and Their Applications is a valuable reference book for researchers in the field as well as a textbook for materials science and applied physics courses Introduction to Solid-State Theory Otfried Madelung,2012-12-06 Introduction to Solid State Theory is a textbook for graduate students of physics and materials science It also provides the theoretical background needed by physicists doing research in pure solid state physics and its applications to electrical engineering The fundamentals of solid state theory are based on a description by delocalized and localized states and within the concept of delocalized states by elementary excitations The development of solid state theory within the last ten years has shown that by a systematic introduction of these concepts large parts of the theory can be described in a unified way This form of description gives a pictorial formulation of many elementary processes in solids which facilitates their understanding *Phase Separation in Soft Matter Physics* Pulat K. Khabibullaev,Abdulla Saidov,2003-04-11 This is the first monograph devoted to investigation of the most complex physical processes of soft systems including a wide class of solutions It blends modern theoretical

understanding and experimental results proposing new methods and models for the description of several soft systems

Elementary Processes in Excitations and Reactions on Solid Surfaces Ayao Okiji, Hideaki Kasai, Kenji Makoshi, 2012-12-06

Elementary Processes in Excitations and Reactions on Solid Surfaces explores the fundamental nature of dynamics on solid surfaces. Attempts are made to reveal various aspects of elementary processes in excitations and reactions on solid surfaces by recent theoretical and experimental developments of the subjects such as molecular beams interacting with surfaces, ion beam scattering, laser induced dynamical processes, electronically induced dynamical processes and optical properties of solid surfaces. This volume is divided into three parts. Part I is concerned mainly with the rich reaction dynamics on potential energy surfaces. Part II is devoted to the interplay of excitations. In Part III new and rapidly developing methods are introduced.

Physical Properties of Quasicrystals Zbigniew M. Stadnik, 2012-12-06 Quasicrystals are a new form of the solid state which differ from the other two known forms, crystalline and amorphous, by possessing a new type of long range translational order called quasiperiodicity and a noncrystallographic orientational order. This book provides an up to date description of the unusual physical properties of these new materials. Emphasis is placed on the experimental results which are compared with those of the corresponding crystalline and amorphous systems and discussed in terms of modern theoretical models. Written by leading authorities in the field, the book will be of great use both to experienced workers in the field and to uninitiated graduate students.

Fractal Concepts in Condensed Matter Physics Tsuneyoshi

Nakayama, Kousuke Yakubo, 2013-06-29 Concisely and clearly written, this book provides a self contained introduction to the basic concepts of fractals and demonstrates their use in a range of topics in condensed matter physics and statistical mechanics. The first part outlines different fractal structures observed in condensed matter. The main part of the book is dedicated to the dynamical behaviour of fractal structures including anomalous and percolating systems. The concept of multifractals is illustrated for the metal insulator quantum phase transition. The authors emphasize the unified description of these different dynamic problems, thus making the book accessible to readers who are new to the field.

Magneto-Optics

Satoru Sugano, Norimichi Kojima, 2013-03-09 This book is designed to provide graduate students and research beginners with an introductory review of recent developments in the field of microscopic magneto optics. The field contains the most important subjects in solid state physics, chemical physics and electronic engineering. Microscopic studies of magneto optics stem from those of ligand field spectra of paramagnetic ions in solids and liquids which are also well known to have brought developments in material research for solid state lasers. As the introductory chapter of this monograph, Chap 1 deals with the fundamental properties of ligand field spectra in useful solids. Chapter 2 is on elementary excitations such as magnons and excitons in magnetically ordered crystals, a central aspect of recent developments in microscopic magneto optics. Chapter 3 concerns Raman spectroscopy accompanying magnetic excitations of high energies in strongly correlated electron systems which are related to high T_c superconductors. Chapter 4 is on recent developments in the studies of non linear optical effects.

citing experiments for Cr₂O₃ and describing a microscopic theory for its second harmonic generation In Chap 5 after introducing a phenomenological theory of the Faraday and Kerr effects we present a microscopic theory based on the ligand field theory and discuss the future developments Chapter 6 concerns diluted magnetic semiconductors discussing formation magnetic properties and quantum confinement effects of magnetic polarons Chapter 7 is also on diluted magnetic semiconductors emphasizing the importance in growing new magnetic semiconductors and in studying their remarkable magneto optical properties

Electrodynamics of Magnetoactive Media Israel D. Vagner, B.I. Lembrikov, Peter Rudolf Wyder, 2013-03-09 Our objective was primarily to consider in a separate treatise from the general point of view a theory of as many electrodynamic phenomena in a magnetic field as possible The choice of material was determined by both the absence of such a book and the scientific interests of the authors From the very beginning however we felt it necessary to include the fundamentals of electrodynamics that are required for the thorough analysis of particular processes We believe that it is convenient for a reader to find in the same book a consistent review of some special fields in physics and a complete set of theoretical instruments that are necessary for the clear understanding of more advanced parts of the book There exists a number of excellent textbooks and monographs describing the problems of classical electrodynamics in general and its applications to continuous media We have to acknowledge for example the following fundamental books Electrodynamics by A Sommerfeld 1 The Classical Theory of Fields by L D Landau and E M Lifshitz 2 Electromagnetic Theory by J A Stratton 3 and Electrodynamics of Continuous Media by L D Landau and E M Lifshitz 4 This list is certainly not exhaustive However to our knowledge a book specifically covering the theory of electrodynamic phenomena in a magnetic field has not yet been written

Magnetic Flux Structures in Superconductors R.P. Huebener, 2013-03-14 The first edition of this book provided an introduction to the many static and dynamic features of magnetic flux structures in what are now called classical or low temperature superconductors It went out of print not long after the discovery of high temperature superconductors in 1986 by J G Bednorz and K A Müller a discovery which resulted worldwide in an explosive growth of research and development in the field of superconductivity Because of this upsurge of activities a strong demand for this book clearly continued Since the contents of the fourteen chapters of the first edition are still valid and continue to represent a useful introduction into the various subjects it was felt that a reprinting of these chapters in this second edition would be highly attractive In this way the reader is also able to trace the earlier scientific developments themselves constituting important ideas sometimes forgotten by the new community dealing with high temperature superconductivity However because of the exciting and important recent progress in the field of high temperature superconductivity an extensive chapter has been added in this second edition It provides a summary of the new developments and a discussion of the highlights Here keywords such as vortex matter vortex imaging and half integer magnetic flux quanta describe surprising new issues

Electron Liquids Akira

Isihara, 2012-12-06 Several years have passed since the first edition of this book was published During this period significant

developments in the study of electron systems have taken place especially in the areas of high T_c superconductivity and the quantized Hall effect. These developments and such fascinating subjects as crystallization and the stability of matter are included in the second edition. Bardstown KY A. Isihara June 1997 Preface to the First Edition The study of electronic properties reveals a common basis for a variety of systems including gaseous plasmas, ionic solutions, metals and semiconductors. This study started with one electron properties in free space as discussed in solid state books. However, significant progress has been made recently in more realistic and complicated cases with interactions, confinements, impurities and fields. Moreover, the recent discoveries of the quantum Hall effect, high T_c superconductors and localization phenomena along with the introduction of low dimensional materials have opened new areas and have led to a tremendous number of articles in existing journals and even new specialized journals. This book has been written to provide a new comprehensive review on electronic properties in such diverse areas and materials.

Site Symmetry in Crystals Robert A. Evarestov, Vyacheslav P. Smirnov, 2012-12-06 Site Symmetry in Crystals is the first comprehensive account of the group theoretical aspects of the site local symmetry approach to the study of crystalline solids. The efficiency of this approach, which is based on the concepts of simple induced and band representations of space groups, is demonstrated by considering newly developed applications to electron surface states, point defects, symmetry analysis in lattice dynamics, the theory of second order phase transitions and magnetically ordered and non rigid crystals. Tables of simple induced representations are given for the 24 most common space groups, allowing the rapid analysis of electron and phonon states in complex crystals with many atoms in the unit cell.

Unveiling the Magic of Words: A Review of "**Ultrafast Spectroscopy Of Semiconductors And Semiconductor Nanostructures Springer Series In Solid State Sciences**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Ultrafast Spectroscopy Of Semiconductors And Semiconductor Nanostructures Springer Series In Solid State Sciences**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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