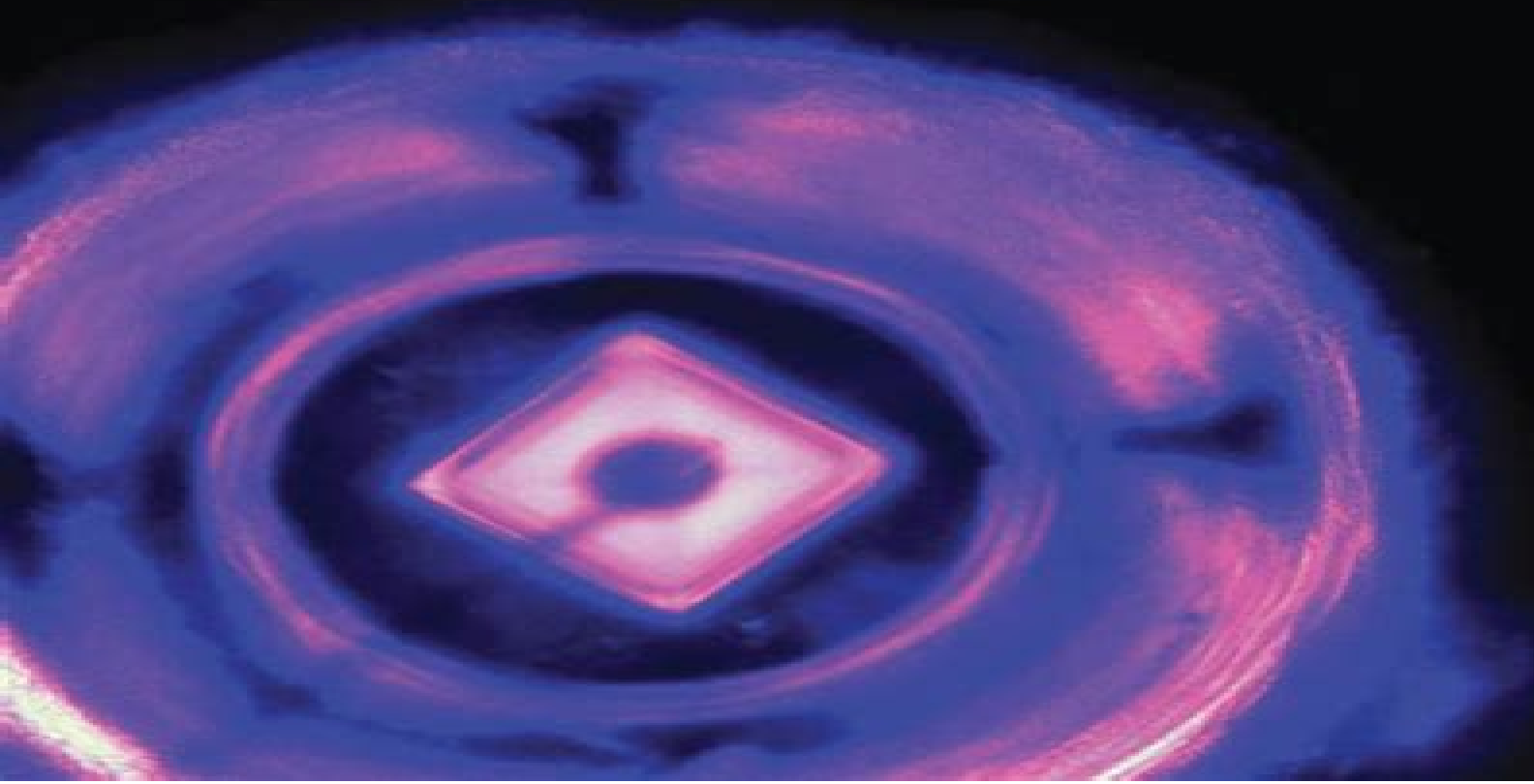


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Luminescence Spectroscopy *of* Semiconductors



Luminescence Spectroscopy Of Semiconductors

Ivan Pelant, Jan Valenta

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Luminescence Spectroscopy of Semiconductors Ivan Pelant, Jan Valenta, 2012-02-02 This book reviews up to date ideas of how the luminescence radiation in semiconductors originates and how to analyze it experimentally The book fills a gap between general textbooks on optical properties of solids and specialized monographs on luminescence It is unique in its coherent treatment of the phenomenon of luminescence from the very introductory definitions from light emission in bulk crystalline and amorphous materials to the advanced chapters that deal with semiconductor nano objects including spectroscopy of individual nanocrystals The theory of radiative recombination channels in semiconductors is considered on a level of intuitive physical understanding rather than rigorous quantum mechanical treatment The book is based on teaching and written in the style of a graduate text with plenty of tutorial material illustrations and problem sets at chapter ends It is designed predominantly for students in physics optics optoelectronics and materials science *Luminescence Spectroscopy of Semiconductors* Ivan Pelant, Jan Valenta, 2012-02-02 Semiconductor luminescence has been a rapidly expanding field over the last 50 years This text reviews the whole subject of semiconductor luminescence in one volume **Ultrafast**

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Spectroscopy of Nonequilibrium Electrons and Phonons C.V. Shank, B.P. Zakharchenya, 2012-12-02 The physics of nonequilibrium electrons and phonons in semiconductors is an important branch of fundamental physics that has many practical applications especially in the development of ultrafast and ultrasmall semiconductor devices This volume is devoted to different trends in the field which are presently at the forefront of research Special attention is paid to the ultrafast relaxation processes in bulk semiconductors and two dimensional semiconductor structures and to their study by different spectroscopic methods both pulsed and steady state The evolution of energy and space distribution of nonequilibrium electrons and the relaxation kinetics of hot carriers and phonons are considered under various conditions such as temperature doping and pumping intensity by leading experts in the field *Low-dimensional Semiconductors* M. J. Kelly, 1995-11-23 This text is a first attempt to pull together the whole of semiconductor science and technology since 1970 in

so far as semiconductor multilayers are concerned Material technology physics and device issues are described with approximately equal emphasis and form a single coherent point of view The subject matter is the concern of over half of today's active semiconductor scientists and technologists the remainder working on bulk semiconductors and devices It is now routine to design and prepare semiconductor multilayers at a time with independent control over the dropping and composition in each layer In turn these multilayers can be patterned with features that as small as a few atomic layers in lateral extent The resulting structures open up many new areas of exciting solid state and quantum physics They have also led to whole new generations of electronic and optoelectronic devices whose superior performance relates back to the multilayer structures The principles established in the field have several decades to go advancing towards the ultimate of materials engineering the design and preparation of solids atom by atom The book should appeal equally to physicists electronic engineers and materials scientists *Semiconductor Nanostructures for Optoelectronic Devices* Gyu-Chul Yi, 2012-01-13 This book presents the fabrication of optoelectronic nanodevices The structures considered are nanowires nanorods hybrid semiconductor nanostructures wide bandgap nanostructures for visible light emitters and graphene The device applications of these structures are broadly explained The book deals also with the characterization of semiconductor nanostructures It appeals to researchers and graduate students *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 **Ultrafast Phenomena in Semiconductors** Kong-Thon Tsen, 2012-12-06 There are many books in the market devoted to the review of certain fields This book is different from those in that authors not only provide reviews of the fields but also present their own important contributions to the fields in a tutorial way As a result researchers who are already in the field of ultrafast dynamics in semiconductors and its device applications as well as researchers and graduate students just entering the field will benefit from it This book is made up of recent new developments in the field of ultrafast dynamics in semiconductors It consists of nine chapters Chapter 1 reviews a microscopic many body theory which allows one to compute the linear and nonlinear optical properties of semiconductor superlattices in the presence of homogeneous electric fields Chapter 2 deals with ultrafast intersubband dynamics in quantum wells and device structures Chapter 3 is devoted to Bloch oscillations in semiconductors and their applications Chapter 4 discusses transient electron transport phenomena such as electron ballistic transport and electron velocity overshoot phenomena as well as non equilibrium phonon dynamics in nanostructure semiconductors Chapter 5 reviews experimental and theoretical work on the use of the phase properties of one or more ultrashort

optical pulses to generate and control electrical currents in semiconductors *Excitons in Semiconductors* Subhabrata Dhar, 2025-05-13 This book explores fundamental and experimental aspects of excitons in semiconductors It begins with an introduction to crystal lattice band structure of solids effective mass theory and holes It then explores the binding energy of various excitons and their complexes such as trions and biexcitons in different dimensions within the framework of effective mass approximation discusses the absorption and emission of photons during their creation and recombination processes providing experimental examples in photo absorption and photoluminescence PL spectroscopy Theoretical foundations for calculating the dielectric function associated with excitons along with the concept of exciton polaritons are introduced The book also examines the interaction between excitons and phonons which is illustrated with experimental findings Further it discusses the effects of magnetic field on the energy eigenstates of excitons and talks about polarization resolved spectroscopy under magnetic field for identifying excitons and obtaining deeper insight of the excitonic structure as well as the semiconductor band structure Lastly it delves into the manybody effects i e Bose Einstein condensation of excitons and excitonic Mott transition presenting recent experimental findings and potential applications Throughout emphasis is placed on elucidating fundamental concepts while keeping readers abreast of the latest developments in the field With a focus on experimental methods and data interpretation the book serves as an invaluable resource for both graduate students and research scholars Analytical Techniques for the Characterization of Compound Semiconductors G. Bastard, H.

Oppolzer, 1991-07-26 This volume is a collection of 96 papers presented at the above Conference The scope of the work includes optical and electrical methods as well as techniques for structural and compositional characterization The contributed papers report on topics such as X ray diffraction TEM depth profiling photoluminescence Raman scattering and various electrical methods Of particular interest are combinations of different techniques providing complementary information The compound semiconductors reviewed belong mainly to the III V and III VI families The papers in this volume will provide a useful reference on the implications of new technologies in the characterization of compound semiconductors

Power Electronics Device Applications of Diamond Semiconductors Satoshi Koizumi, Hitoshi Umezawa, Julien Pernot, Mariko Suzuki, 2018-06-29 Power Electronics Device Applications of Diamond Semiconductors presents state of the art research on diamond growth doping device processing theoretical modeling and device performance The book begins with a comprehensive and close examination of diamond crystal growth from the vapor phase for epitaxial diamond and wafer preparation It looks at single crystal vapor deposition CVD growth sectors and defect control ultra high purity SC CVD SC diamond wafer CVD heteroepitaxy on Ir MQO and needle induced large area growth also discussing the latest doping and semiconductor characterization methods fundamental material properties and device physics The book concludes with a discussion of circuits and applications featuring the switching behavior of diamond devices and applications high frequency and high temperature operation and potential applications of diamond semiconductors for high voltage devices Includes

contributions from today's most respected researchers who present the latest results for diamond growth doping device fabrication theoretical modeling and device performance Examines why diamond semiconductors could lead to superior power electronics Discusses the main challenges to device realization and the best opportunities for the next generation of power electronics

Hot Electrons in Semiconductors N. Balkan, 1998 Since the arrival of the transistor in 1947 research in hot electrons like any field in semiconductor research has grown at a stunning rate From a physicist's point of view the understanding of hot electrons and their interactions with the lattice has always been a challenging problem of condensed matter physics Recently with the advent of novel fabrication techniques such as electron beam or plasma etching and the advanced growth techniques such as the molecular beam epitaxy MBE and metallo organic chemical vapour deposition MOCVD it has become possible to fabricate semiconductor devices with sub micron dimensions where the electrons are confined to two quantum well one quantum wire or zero quantum dot dimensions In devices of such dimensions a few volts applied to the device result in the setting up of very high electric fields hence a substantial heating of electrons Thus electronic transport in the device becomes non linear and can no longer be described using the simple equations of Ohm's law The understanding of the operations of such devices and the realisations of more advanced ones make it necessary to understand the dynamics of hot electrons There is an obvious lack of good reference books on hot electrons in semiconductors The few that exist either cover a very narrow field or are becoming quite outdated This book is therefore written with the aim of filling the vacuum in an area where there is much demand for a comprehensive reference book The book is intended for both established researchers and graduate students and gives a complete account of the historical development of the subject together with current research interests and future trends The contributions are written by leading scientists in the field They cover the physics of hot electrons in bulk and low dimensional device technology The material is organised into subject area that can be classified broadly into five groups 1 introduction and overview 2 hot electron phonon interactions and the ultra fast phenomena in bulk and two dimensional structures 3 hot electrons in both long and short quantum wires and quantum dots 4 hot electron tunnelling and hot electron transport in superlattices and 5 novel devices based on hot electron transport The chapters are grouped according to subject matter as far as possible However although there is much overlap of ideas and concepts each chapter is essentially independent of the others

Semiconductor Nanowires II: Properties and Applications, 2016-01-11 Semiconductor Nanowires Part B and Volume 94 in the Semiconductor and Semimetals series focuses on semiconductor nanowires Includes experts contributors who review the most important recent literature Contains a broad view including examination of semiconductor nanowires

Semiconductor Physics Karl W. Böer, Udo W. Pohl, 2023-02-02 This handbook gives a complete and detailed survey of the field of semiconductor physics It addresses every fundamental principle the most important research topics and results as well as conventional and emerging new areas of application Additionally it provides all essential reference material on

crystalline bulk low dimensional and amorphous semiconductors including valuable data on their optical transport and dynamic properties This updated and extended second edition includes essential coverage of rapidly advancing areas in semiconductor physics such as topological insulators quantum optics magnetic nanostructures and spintronic systems Richly illustrated and authored by a duo of internationally acclaimed experts in solar energy and semiconductor physics this handbook delivers in depth treatment of the field reflecting a combined experience spanning several decades as both researchers and educators Offering a unique perspective on many issues Semiconductor Physics is an invaluable reference for physicists materials scientists and engineers throughout academia and industry

Extended Defects in Semiconductors D. B. Holt, B. G. Yacobi, 2007-04-12 The elucidation of the effects of structurally extended defects on electronic properties of materials is especially important in view of the current advances in electronic device development that involve defect control and engineering at the nanometer level This book surveys the properties effects roles and characterization of extended defects in semiconductors The basic properties of extended defects dislocations stacking faults grain boundaries and precipitates are outlined and their effect on the electronic properties of semiconductors their role in semiconductor devices and techniques for their characterization are discussed These topics are among the central issues in the investigation and applications of semiconductors and in the operation of semiconductor devices The authors preface their treatment with an introduction to semiconductor materials and conclude with a chapter on point defect maldistributions This text is suitable for advanced undergraduate and graduate students in materials science and engineering and for those studying semiconductor physics

Solar Light Harvesting with Nanocrystalline Semiconductors Oleksandr Stroyuk, 2017-11-07 This book explains the use of nanocrystalline semiconductors in the harvesting of energy from solar light It introduces promising methodology and technology which may help to increase the efficiency of light harvesting one of the major challenges on the way toward sustainable energy generation The book starts with a general introduction to the photochemistry of semiconductor nanocrystals In the introductory chapter the author also provides a frank and critical discussion on perspectives and limitations of the photocatalytic processes for solar light conversion including a historical account on semiconductor photocatalysis He discusses that and also why it is a long way from laboratory prototypes to real sustainable technologies The following chapters outline the conversion of solar light energy in semiconductor nanophotocatalysis on the one hand and to electric energy in nanocrystalline semiconductor based solar cells on the other hand Topics addressed include nanophotocatalytic hydrogen production artificial photosynthesis quantum dot sensitized liquid junction and bulk heterojunction solar cells Perspectives and opportunities but also bottlenecks and limitations are discussed and the novel systems compared with established technology such as classical silicon solar cells While readers in this way learn to understand the basics and get introduced to the current research in the field the final chapter provides them with the necessary knowledge about methodology both in synthesis and characterization of semiconductor

nanophotocatalysts and semiconductor nanomaterials including examples for the practice of photocatalytic experiments and the studies of semiconductor based solar cells **21st Century Nanoscience** Klaus D. Sattler, 2022-01-18 This 21st Century Nanoscience Handbook will be the most comprehensive up to date large reference work for the field of nanoscience Handbook of Nanophysics by the same editor published in the fall of 2010 was embraced as the first comprehensive reference to consider both fundamental and applied aspects of nanophysics This follow up project has been conceived as a necessary expansion and full update that considers the significant advances made in the field since 2010 It goes well beyond the physics as warranted by recent developments in the field Key Features Provides the most comprehensive up to date large reference work for the field Chapters written by international experts in the field Emphasises presentation and real results and applications This handbook distinguishes itself from other works by its breadth of coverage readability and timely topics The intended readership is very broad from students and instructors to engineers physicists chemists biologists biomedical researchers industry professionals governmental scientists and others whose work is impacted by nanotechnology It will be an indispensable resource in academic government and industry libraries worldwide The fields impacted by nanoscience extend from materials science and engineering to biotechnology biomedical engineering medicine electrical engineering pharmaceutical science computer technology aerospace engineering mechanical engineering food science and beyond

21st Century Nanoscience - A Handbook Klaus D. Sattler, 2020-04-02 This up to date reference is the most comprehensive summary of the field of nanoscience and its applications It begins with fundamental properties at the nanoscale and then goes well beyond into the practical aspects of the design synthesis and use of nanomaterials in various industries It emphasizes the vast strides made in the field over the past decade the chapters focus on new promising directions as well as emerging theoretical and experimental methods The contents incorporate experimental data and graphs where appropriate as well as supporting tables and figures with a tutorial approach

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