
**Semiconductors
Probed by
Ultrafast Laser Spectroscopy
Volume II**

**Edited by
R. R. ALFANO**



Semiconductors Probed By Ultrafast Laser Spectroscopy

Karl W. Böer



Semiconductors Probed By Ultrafast Laser Spectroscopy:

Semiconductors Probed by Ultrafast Laser Spectroscopy Pt II Robert R. Alfano, 2012-12-02 *Semiconductors Probed by Ultrafast Laser Spectroscopy Volume II* discusses the use of ultrafast laser spectroscopy in studying fast physics in semiconductors. It reviews progress on the experimental and theoretical understanding of ultrafast events that occur on a picosecond and nanosecond time scale. This volume discusses electronic relaxation in amorphous semiconductors and the physical mechanisms during and after the interaction of an intense laser pulse with a semiconductor. It also covers the relaxation of carriers in semiconductors, transient optical pulse propagation, and methods of time-resolved spectroscopy. Scientists, engineers, and graduate students will find this book invaluable. [Semiconductors Probed by Ultrafast Laser Spectroscopy Pt I](#) Robert R. Alfano, 2012-12-02 *Semiconductors Probed by Ultrafast Laser Spectroscopy Volume 1* discusses the use of ultrafast laser spectroscopy in studying fast physics in semiconductors. It reviews progress on the experimental and theoretical understanding of ultrafast events that occur on a picosecond and nanosecond time scale. This volume first explores the relaxation of energy and the momentum of hot carriers and then turns to relaxation of plasmas and phonons. It also discusses the dynamics of excitons, polaritons, and excitonic molecules and reviews transient transport and diffusion of carriers. Scientists, engineers, and graduate students will find this book invaluable. [Semiconductors Probed by Ultrafast Laser Spectroscopy](#) Robert R. Alfano, 1984 *Semiconductors Probed by Ultrafast Laser Spectroscopy Volume 1* discusses the use of ultrafast laser spectroscopy in studying fast physics in semiconductors. It reviews progress on the experimental and theoretical understanding of ultrafast events that occur on a picosecond and nanosecond time scale. This volume first explores the relaxation of energy and the momentum of hot carriers and then turns to relaxation of plasmas and phonons. It also discusses the dynamics of excitons, polaritons, and excitonic molecules and reviews transient transport and diffusion of carriers. Scientists, engineers, *Semiconductors Probed by Ultrafast Laser Spectroscopy [Vol. 1-2]*. R.R. Alfano (ed), 1984 [Semiconductors Probed by Ultrafast Laser Spectroscopy](#) R. R. Alfano, Robert R. Alfano, 1984 *Semiconductors Probed by Ultrafast Laser Spectroscopy Volume II* discusses the use of ultrafast laser spectroscopy in studying fast physics in semiconductors. It reviews progress on the experimental and theoretical understanding of ultrafast events that occur on a picosecond and nanosecond time scale. This volume discusses electronic relaxation in amorphous semiconductors and the physical mechanisms during and after the interaction of an intense laser pulse with a semiconductor. It also covers the relaxation of carriers in semiconductors, transient optical pulse propagation, and methods of time [Spectroscopy of Semiconductor Microstructures](#) Gerhard Fasol, Annalisa Fasolino, Paolo Lugli, 2013-06-29 Proceedings of a NATO ARW held in Venice, Italy, May 9-13, 1989 *Optical Properties of Semiconductors* G. Martinez, 2013-06-29 It is widely recognized that an understanding of the optical properties of matter will give a great deal of important information relevant to the fundamental physical properties. This is especially true in semiconductor physics for which, due to the intrinsic low screening of these

materials the optical response is quite rich Their spectra reflect indeed as well electronic as spin or phonon transitions This is also in the semiconductor field that artificial structures have been recently developed showing for the first time specific physical properties related to the low dimensionality of the electronic and vibronic properties with this respect the quantum and fractional quantum Hall effects are among the most well known aspects The associated reduced screening is also a clear manifestation of these aspects and as such favors new optical properties or at least significantly enhances some of them For all these reasons it appeared necessary to try to review in a global way what the optical investigation has brought today about the understanding of the physics of semiconductors This volume collects the papers presented at the NATO Advanced study Institute on Optical Properties of Semiconductors held at the Ettore Majorana Centre Erice Sicily on March 9th to 20th 1992 This school brought together 70 scientists active in research related to optical properties of semiconductors There were 12 lecturers who provided the main contributions

Ultrafast Dynamical Processes in Semiconductors

Kong-Thon Tsen, 2004-02-25 An international team of experts describes the optical and electronic properties of semiconductors and semiconductor nanostructures at picosecond and femtosecond time scales The contributions cover the latest research on a wide range of topics In particular they include novel experimental techniques for studying and characterizing nanostructure materials The contributions are written in a tutorial way so that not only researchers in the field but also researchers and graduate students outside the field can benefit

Ultrafast Lasers Probe Phenomena in Semiconductors and Superconductors Society of Photo-optical Instrumentation Engineers, 1992

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 Spectroscopy of Semiconductors and Semiconductor Nanostructures Jagdeep Shah, 2013-11-21

The field of ultrafast spectroscopy of semiconductors and their nanostructures continues to be an active field of research Exciting new developments have taken place since the first edition of this book was completed in 1995 This revised edition

includes a discussion of many of these recent developments in the field. This is accomplished by adding a chapter on Recent Developments at the end of the book. This approach was selected to provide a discussion of results while they are still relatively recent. Results published before the end of May 1998 were considered for inclusion in this book. The objective of this revised edition remains the same as before to provide a cohesive discussion of the many diverse contributions of ultrafast spectroscopy to the field of semiconductors. Extensive cross references are made to earlier chapters in order to accomplish this goal. The chapter on Recent Developments begins with a brief discussion of new lasers, new techniques of ultrafast spectroscopy and novel nanostructures. This is followed by a section on Coherent Spectroscopy where some of the most interesting recent developments have taken place. These include observation of quantum kinetic effects, effects that require going beyond the mean field approach of the semiconductor Bloch equations, coherent control of populations and current in semiconductors, exciton continuum interactions and many diverse aspects of coherent spectroscopy including studies of microcavities, Bragg structures, quantum dots and quantum wires.

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.

The Physics of the Two-Dimensional Electron Gas J.T. Devreese, F.M. Peeters, 2012-12-06. The 1986 Advanced Study Institute on The Physics of the two Dimensional Electron Gas took place at the Conference Centre liTer Helme close to Oostende, Belgium, from June 2 till 16, 1986. We were motivated to organize this Advanced Study Institute in view of the recent experimental and theoretical progress in the study of the two dimensional electron gas. An additional motivation was our own theoretical interest in cyclotron resonance in two dimensional electron systems at our institute. It is my pleasure to thank several instances and people who made this Advanced Study Institute possible. First of all, the sponsor of the Advanced Study Institute, the NATO Scientific Committee. Furthermore, the co-sponsors: Agfa Gevaert, Bell Telephone Mfg Co, N.V. Burroughs, Belgium Control Data, Digital Equipment Corporation, Esso Belgium, European Research Office USA, Kredietbank, National Science Foundation USA. Special thanks are due to the members of the Program Committee and the members of the Organizing Committee. I would also like to thank Mrs H. Evans for typing assistance.

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Phenomena in Bulk and Microstructure Semiconductors II ,1988

Hot Carriers in Semiconductors J. Shah,G.J.

Iafrate,2013-10-22 A comprehensive account of the latest developments in the rapidly expanding area of Semiconductor Technology Main topics covered include real space transfer heterostructures ultrafast studies optical studies transport theory devices ballistic transport scattering processes and hot phonons tunnelling far infrared and magnetic field studies and impact ionization noise chaos Other aspects include the use of femtosecond lasers in investigating transient hot carrier effects on femtosecond timescales magnetotransport and carrier carrier interactions

Handbook of the Physics of Thin-Film Solar Cells Karl W. Böer,2014-04-23 This handbook is a compendium giving a comprehensive description of the basics of semiconductor physics relevant to the design and analysis of thin film solar cell materials It starts from the basics of material science describing the material and its growth defect and electrical properties the basics of its interaction with photons and the involved statistics proceeding to space charge effects in semiconductors and pn junctions Most attention is given to analyze homo and hetero junction solar cells using various models and applying the field of direction analysis for discussing current voltage characteristics and helping to discover the involvement of high field effects in solar cells The comprehensive coverage of the main topics of and relating to solar cells with extensive reference to literature helps scientists and engineers at all levels to reach a better understanding and improvement of solar cell properties and their production The author is one of the founders of thin film solar cell research

Physics and Engineering of Radiation Detection Syed Naeem Ahmed,2014-11-20 Physics and Engineering of Radiation Detection presents an overview of the physics of radiation detection and its applications It covers the origins and properties of different kinds of ionizing radiation their detection and measurement and the procedures used to protect people and the environment from their potentially harmful effects The second edition is fully revised and provides the latest developments in detector technology and analyses software Also more material related to measurements in particle physics and a complete solutions manual have been added Discusses the experimental techniques and instrumentation used in different detection systems in a very practical way without sacrificing the physics content Provides useful formulae and explains methodologies to solve problems related to radiation measurements Contains many worked out examples and end of chapter problems Detailed discussions on different detection media such as gases liquids liquefied gases semiconductors and scintillators Chapters on statistics data analysis techniques software for data analysis and data acquisition systems

Coherent Optical Interactions in Semiconductors R.T. Phillips,2013-06-29 The NATO Advanced Research Workshop on Coherent Optical Processes in Semiconductors was held in Cambridge England on August 11 14 1993 The idea of holding this Workshop grew from the recent upsurge in activity on coherent transient effects in semiconductors The development of this field reflects advances in both light sources and the quality of semiconductor structures such that tunable optical pulses are now routinely available whose duration is shorter than the dephasing time for excitonic states in quantum wells It was therefore no surprise to the organisers that as the

programme developed there emerged a heavy emphasis on time resolved four wave mixing particularly in quantum wells Nevertheless other issues concerned with coherent effects ensured that several papers on related problems contributed some variety The topics discussed at the workshop centred on what is a rather new field of study and benefited enormously by having participants representing many of the principal groups working in this area Several themes emerged through the invited contributions at the Workshop One important development has been the careful examination of the two level model of excitonic effects a model which has been remarkably successful despite the expected complexities arising from the semiconductor band structure Indeed modest extensions to the two level model have been able to offer a useful account for some of the complicated polarisation dependence of four wave mixing signals from GaAs quantum wells This work clearly is leading to an improved understanding of excitons in confined systems *Lectures on Light* Stephen Colby Rand, 2016 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

Ultrashort Laser Pulses Wolfgang Kaiser, 2006-11-14 This second edition in paperback provides an up to date review of the state of the art in different generation processes for ultrashort laser pulses In addition extensive applications in a wide range of fields in physics engineering chemistry and biology are discussed Eight chapters deal with the following topics the generation of picosecond and femtosecond laser pulses nonlinear wave interactions new investigations in solid state physics

recent progress in optoelectronics advances in coherent material excitations ultrafast vibrational lifetimes and energy redistribution in liquids new observations of chemical reactions in the liquid state the primary processes of important biological systems The book is essential reading for scientists and engineers who want to know what is going on in this rapidly advancing field It should also interest graduate students and others who seek an introduction to laserpulses

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