
Semiconductors Probed by Ultrafast Laser Spectroscopy Volume II

**Edited by
R. R. ALFANO**



Semiconductors Probed By Ultrafast Laser Spectroscopy

N. Balkan



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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

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

Ultrafast Dynamical Processes in Semiconductors Kong-Thon Tseng, 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

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

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

Industrial Applications Of Ultrafast Lasers Richard A Haight, Adra Carr, 2018-03-16 This book describes the application of ultrafast laser science and technology in materials and processing relevant to industry today including ultrafast laser ablation where fundamental studies have led to the development of the world's first femtosecond photomask repair tool Semiconductor manufacturing companies worldwide use the tool to repair photomask defects saving hundreds of millions in production costs The most up to date ultrafast laser technologies are described and methods to generate high harmonics for photoelectron spectroscopy of industrially important materials are covered with an emphasis on practical laboratory implementation Basic device physics merged with photoemission studies from single and polycrystalline materials are described Extensions to new methods for extracting key device properties of metal oxide semiconductor structures including band offsets effective work functions semiconductor band bending and defect related charging in a number of technologically important gate oxides are detailed Polycrystalline photovoltaic materials and heterostructures as well as organic light emitting materials are covered This book describes both the history and most recent applications of ultrafast laser science to industrially relevant materials

processes and devices **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 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 *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

Ultrafast Laser Probe Phenomena in Bulk and Microstructure Semiconductors II, 1988 Nonlinear Meta-Optics Costantino De Angelis, Giuseppe Leo, Dragomir N. Neshev, 2020-05-20 This book addresses fabrication as well as characterization and modeling of semiconductor nanostructures in the optical regime with a focus on nonlinear effects The visible range as well as near and far infrared spectral region will be considered with a view to different envisaged applications The book covers the current key challenges of the research in the area including exploiting new material platforms fully extending the device operation into the nonlinear regime adding re configurability to the envisaged devices and proposing new modeling tools to help in conceiving new functionalities Explores several topics in the field of semiconductor nonlinear nanophotonics including fabrication characterization and modeling of semiconductor nanostructures in the optical regime with a focus on nonlinear effects Describes the research challenges in the field of optical metasurfaces in the nonlinear regime Reviews the use and achievements of all dielectric nanoantennas for strengthening the nonlinear optical response Describes both theoretical and experimental aspects of photonic devices based on semiconductor optical nanoantennas and metasurfaces Gathers contributions from several leading groups in this research field to provide a thorough and complete overview of the current state of the art in the field of semiconductor nonlinear nanophotonics Costantino De Angelis has been full professor of electromagnetic fields at the University of Brescia since 1998 He is an OSA Fellow and has been responsible for several university research contracts in the last 20 years within Europe the United States and Italy His technical interests are in optical antennas and nanophotonics He is the author of over 150 peer reviewed scientific journal articles Giuseppe Leo has been a full professor in physics at Paris Diderot University since 2004 and in charge of the nonlinear devices group of MPQ Laboratory since 2006 His research areas include nonlinear optics micro and nano photonics and optoelectronics with a focus on AlGaAs platform He has coordinated several research programs and coauthored 100 peer reviewed journal articles 200 conference papers 10 book chapters and also has four patents Dragomir Neshev is a professor in physics and the leader of the experimental photonics group in the Nonlinear Physics Centre at Australian National University ANU His activities span over several branches of optics including nonlinear periodic structures singular optics plasmonics and photonic metamaterials He has coauthored 200 publications in international peer reviewed scientific journals *Nonlinear Optics in Signal Processing* R.W. Eason, A. Miller, 2012-12-06 Nonlinear Optics in

Signal Processing covers the applications of nonlinear optics to optical processing in a range of areas including switching computing and telecommunications *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

Statistical Foundations of Irreversible Thermodynamics Roberto Luzzi, Aurea R. Vasconcellos, J. Galvao Ramos, 2013-04-17 Thermodynamics is considered to be an offshoot of the Industrial Revolution that began in England in the second half of the 18th Century and from there spread to other parts of the world The word thermodynamics is derived from the Greek *therme* meaning heat and *dynamis* meaning force As well known the origins of thermodynamics are founded in the early 19th century in the study of the motive power of heat that is the capability of hot bodies to produce mechanical work However there are of course precursors to these ideas Temperature is probably the earliest thermodynamic concept to attain operational status early in the 17th century with Galileo The science of calorimetry beginning in the late 18th century contemporary with the beginning of the Industrial Revolution led to the establishment of the caloric theory of heat 5 Clausius in the second half of the 19th century established Thermodynamics as a clearly defined science The connection of Thermodynamics with Mechanics is first achieved through kinetic theory with the work of D Bernoulli J Herapath Waterston R Clausius C Maxwell and finally L Boltzmann later through Statistical Mechanics whose main purpose is to determine the thermodynamic properties and values of macroscopic observables in terms of the dynamical laws that govern the motion of the constitutive particles of the system It is not easy to establish precisely the dates of the birth of Statistical Mechanics

Decoding **Semiconductors Probed By Ultrafast Laser Spectroscopy**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Semiconductors Probed By Ultrafast Laser Spectroscopy**," a mesmerizing literary creation penned by a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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