

A. Baldereschi and R. Resta, Editors

# Shallow Impurity Centers in Semiconductors

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# Shallow Impurity Centers In Semiconductors

**A. Baldereschi, R. Resta, International  
Centre for Theoretical  
Physics, International Union of Pure  
and Applied Physics**

## **Shallow Impurity Centers In Semiconductors:**

Shallow Impurity Centers in Semiconductors A. Baldereschi, R. Resta, 2012-12-02 Shallow Impurity Centers in Semiconductors presents the proceedings of the Second International Conference on Shallow Impurity Centers Fourth Trieste IUPAP ICTP Semiconductor Symposium held at the International Center for Theoretical Physics in Trieste Italy on July 28 to August 1 1986 The book presents the perspectives of some of the leading scientists in the field who address basic physical aspects and device implications novel phenomena recent experimental and theoretical techniques and the behavior of impurities in new semiconductor materials Organized into 22 chapters the book begins with an overview of the early years of shallow impurity states before turning to a discussion of progress in spectroscopy of shallow centers in semiconductors since 1960 It then looks at theoretical and experimental aspects of hydrogen diffusion and shallow impurity passivation in semiconductors along with optical excitation spectroscopy of isolated double donors in silicon The book methodically walks the reader through recent research on double acceptors using near mid and far infrared spectroscopy the far infrared absorption spectrum of elemental shallow donors and acceptors in germanium and impurity spectra in stress induced uniaxial germanium using Zeeman spectroscopy Other papers focus on the theoretical properties of hydrogenic impurities in quantum wells lattice relaxations at substitutional impurities in semiconductors shallow bound excitons in silver halides and the electronic structure of bound excitons in semiconductors The book concludes with a chapter that reviews picosecond spectroscopy experiments performed in III V compounds and alloy semiconductors This volume will be useful to physicists and researchers who are working on shallow impurity centers in semiconductor physics *Shallow Impurity Centers in Semiconductors*, 1987 **Shallow Impurity Centers in Semiconductors**, 1987 **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 *Shallow Impurity Centers in Semiconductors* A. Baldereschi, R. Resta, 1987 **Shallow Impurity Centers in Semiconductors** Raffaele Resta, International Centre for Theoretical Physics, International Conference on Shallow Impurity Centers. 2, 1986, Trieste, International Conference on Shallow

Impurity Centers, Trieste Semiconductor Symposium. 4, 1986, Trieste, International Union of Pure and Applied Physics, Trieste Semiconductor Symposium, 1987      Impurities in Semiconductors Victor I. Fistul, 2004-01-27 Although there is a good deal of research concerning semiconductor impurities available most publications on the subject are very specialized and very theoretical Until now the field lacked a text that described the current experimental data applications and theory concerning impurities in semiconductor physics Impurities in Semicondu      Shallow Impurities in Semiconductors Gordon Davies, 1991 I TECHNIQUES II d DOPING III QUANTUM WELLS IV HYDROGEN IN SEMICONDUCTORS V BOUND EXCITONS VI IMPURITIES IN SILICON VII IMPURITIES IN Ge AND GeSi<sub>1-x</sub> VIII IMPURITIES IN COMPOUND SEMICONDUCTORS IX DX CENTRES      International Conference on Shallow Impurity Centers , 1985      **Shallow Impurity Centers in Semiconductors** A. Baldereschi, R. Resta, International Centre for Theoretical Physics, International Union of Pure and Applied Physics, 1987      **Fundamentals of Semiconductor** Peter YU, Manuel Cardona, 2013-11-11 Fundamentals of Semiconductors attempts to fill the gap between a general solid state physics textbook and research articles by providing detailed explanations of the electronic vibrational transport and optical properties of semiconductors The approach is physical and intuitive rather than formal and pedantic Theories are presented to explain experimental results This textbook has been written with both students and researchers in mind Its emphasis is on understanding the physical properties of Si and similar tetrahedrally coordinated semiconductors The explanations are based on physical insights Each chapter is enriched by an extensive collection of tables of material parameters figures and problems Many of these problems lead the student by the hand to arrive at the results      **Nonradiative Recombination in Semiconductors** V.N. Abakumov, V.I. Perel, I.N. Yassievich, 1991-07-26 In recent years great progress has been made in the understanding of recombination processes controlling the number of excess free carriers in semiconductors under nonequilibrium conditions As a result it is now possible to give a comprehensive theoretical description of these processes The authors have selected a number of experimental results which elucidate the underlying physical problems and enable a test of theoretical models The following topics are dealt with phenomenological theory of recombination theoretical models of shallow and deep localized states cascade model of carrier capture by impurity centers capture restricted by diffusion multiphonon processes Auger processes effect of electric field on capture and thermal emission of carriers      **Defects and Defect Processes in Nonmetallic Solids** W. Hayes, A. M. Stoneham, 2012-02-10 This extensive survey covers defects in nonmetals emphasizing point defects and point defect processes It encompasses electronic vibrational and optical properties of defective solids plus dislocations and grain boundaries 1985 edition      **Electronic Properties of Doped Semiconductors** B.I. Shklovskii, A.L. Efros, 2013-11-09 First generation semiconductors could not be properly termed doped they were simply very impure Uncontrolled impurities hindered the discovery of physical laws baffling researchers and evoking pessimism and derision in advocates of the burgeoning pure physical disciplines The eventual banishment of the dirt heralded a new era in

semiconductor physics an era that had purity as its motto It was this era that yielded the successes of the 1950s and brought about a new technology of semiconductor electronics Experiments with pure crystals provided a powerful stimulus to the development of semiconductor theory New methods and theories were developed and tested the effective mass method for complex bands the theory of impurity states and the theory of kinetic phenomena These developments constitute what is now known as semiconductor physics In the last fifteen years however there has been a noticeable shift towards impure semiconductors a shift which came about because it is precisely the impurities that are essential to a number of major semiconductor devices Technology needs impure semiconductors which unlike the first generation items are termed doped rather than impure to indicate that the impurity levels can now be controlled to a certain extent

**Optical Phenomena in Semiconductor Structures of Reduced Dimensions** D.J. Lockwood, Aron Pinczuk, 2012-12-06 Remarkable advances in semiconductor growth and processing technologies continue to have a profound impact on condensed matter physics and to stimulate the invention of novel optoelectronic effects Intensive research on the behaviors of free carriers has been carried out in the two dimensional systems of semiconductor heterostructures and in the one and zero dimensional systems of nanostructures created by the state of the art fabrication methods These studies have uncovered unexpected quantum mechanical correlations that arise because of the combined effects of strong electron electron interactions and wave function confinement associated with reduced dimensionality The investigations of these phenomena are currently at the frontiers of condensed matter physics They include areas like the fractional quantum Hall effect the dynamics of electrons on an ultra short femtosecond time scale electron behavior in quantum wires and dots and studies of electron tunneling phenomena in ultra small semiconductor structures Optical techniques have made important contributions to these fields in recent years but there has been no coherent review of this work until now The book provides an overview of these recent developments that will be of interest to semiconductor materials scientists in university government and industrial laboratories

**Nonlinear Dynamics and Chaos in Semiconductors** K Aoki, 2000-12-07 The field of nonlinear dynamics and low dimensional chaos has developed rapidly over the past twenty years The principal advances have been in theoretical aspects but more recent applications in a wide variety of the sciences have been made Nonlinear Dynamics and Chaos in

Semiconductors is the first book to concentrate on specific physical and ex

**Best of Soviet Semiconductor Physics and Technology** Mikhail Levinshtein, Michael Shur, 1991-02 Culled from the thousands of papers published in American Institute of

*Semiconductor Physical Electronics* Sheng S. Li, 2012-12-06 The purpose of this book is to provide the reader with a self contained treatment of fundamental solid state and semiconductor device physics The material presented in the text is based upon the lecture notes of a one year graduate course sequence taught by this author for many years in the Department of Electrical Engineering of the University of Florida It is intended as an introductory textbook for graduate students in electrical engineering However many students from other disciplines and backgrounds such as chemical engineering

materials science and physics have also taken this course sequence and will be interested in the material presented herein. This book may also serve as a general reference for device engineers in the semiconductor industry. The present volume covers a wide variety of topics on basic solid state physics and physical principles of various semiconductor devices. The main subjects covered include crystal structures, lattice dynamics, semiconductor statistics, energy band theory, excess carrier phenomena and recombination mechanisms, carrier transport and scattering mechanisms, optical properties, photoelectric effects, metal semiconductor devices, the p-n junction diode, bipolar junction transistor, MOS devices, photonic devices, quantum effect devices and high speed III-V semiconductor devices. The text presents a unified and balanced treatment of the physics of semiconductor materials and devices. It is intended to provide physicists and materials scientists with more device backgrounds and device engineers with a broader knowledge of fundamental solid state physics.

*Spectroscopy And Optoelectronics In Semiconductors And Related Materials - Proceedings Of The Sino-soviet Seminar* Sue-chu Shen, J. H. Chu, Z. P. Wang, J. Q. Yu, Gy. Zhang, 1990-11-23. This proceedings volume covers new results from recent studies on impurity states, bound states in semiconductors, phonons, excitons and electron confinement in superlattices and quantum wells, magneto-optics, optical properties of solids in far infrared and millimeter wave regions, optical nonlinearity for III-V, II-VI compounds, Si-Ge, amorphous and organic semiconductors as well as optical crystals. Special emphasis is placed on the 2DEG system.

**Selected Semiconductor Research** Ming-Fu Li, 2011. This book on solid state physics has been written with an emphasis on recent developments in quantum many body physics approaches. It starts by covering the classical theory of solids and electrons and describes how this classical model has failed. The authors then present the quantum mechanical model of electrons in a lattice and they also discuss the theory of conductivity. Extensive reviews on the topic are provided in a compact manner so that any non specialist can follow from the beginning. The authors cover the system of magnetism in a similar way and various problems in magnetic materials are discussed. The book also discusses the Ising chain, the Heisenberg model, the Kondo effect and superconductivity amongst other relevant topics. In the final chapter the authors present some works related to contemporary research topics such as quantum entanglement in many body systems and quantum simulations. They also include a short review of some of the possible applications of solid state quantum information in biological systems.

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