

Isotope Effects in Solid State Physics

Volume Editor

Vladimir G. Plekhanov



SEMICONDUCTORS AND SEMIMETALS · VOLUME 68

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Isotope Effects In Solid State Physics 68 Semiconductors And Semimetals

Christian G. Meyer



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Isotope Effects in Solid State Physics, 2000-10-24 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 First book on the extremely fashionable subject Adopts an original approach to the subject Timely book in a field making significant progress Introduces new optical tools for solid state physics with wide technological potential Important applications are to be expected for information storage isotopic fiber optics and tunable solid state lasers isotopic optoelectronics as well as neutron transmutation doping Accessible to physics chemists electronic engineers and materials scientists Contents based on recent theoretical developments

Isotope Low-Dimensional Structures Vladimir G. Plekhanov, 2012-05-08 This Briefs volume describes the properties and structure of elementary excitations in isotope low dimensional structures Without assuming prior knowledge of quantum physics the present book provides the basic knowledge needed to understand the recent developments in the sub disciplines of nanoscience isotopetronics novel device concepts and materials for nanotechnology It is the first and comprehensive interdisciplinary account of the newly developed scientific discipline isotopetronics

Isotopes in Condensed Matter Vladimir G. Plekhanov, 2012-08-10 This book provides a concise introduction to the newly created sub discipline of solid state physics isotopetronics The role of isotopes in materials and their properties are describe in this book The problem of the enigma of the atomic mass in microphysics is briefly discussed The range of the applications of isotopes is wide from biochemical process in living organisms to modern technical applications in quantum information Isotopetronics promises to improve nanoelectronic and optoelectronic devices With numerous illustrations this book is useful to researchers engineers and graduate students

Introduction to Isotopic Materials Science Vladimir G. Plekhanov, 2018-12-05 This book describes new trends in the nanoscience of isotopic materials science Assuming a background in graduate condensed matter physics and covering the fundamental aspects of isotopic materials science from the very beginning it equips readers to engage in high level professional research in this area The

book's main objective is to provide insight into the question of why solids are the way they are either because of how their atoms are bonded with one another because of defects in their structure or because of how they are produced or processed. Accordingly, it explores the science of how atoms interact, connects the results to real materials properties, and demonstrates the engineering concepts that can be used to produce or improve semiconductors by design. In addition, it shows how the concepts discussed are applied in the laboratory. The book addresses the needs of researchers, graduate students, and senior undergraduate students alike. Although primarily written for a materials science audience, it will be equally useful to those teaching in electrical engineering, materials science, or even chemical engineering or physics curricula. In order to maintain the focus on materials concepts, however, the book does not burden the reader with details of many of the derivations and equations, nor does it delve into the details of electrical engineering topics.

Semiconductors and Semimetals Robert K. Willardson, Albert C. Beer, 1966

Semiconductors and Semimetals Robert K. Willardson, 2004

Fundamentals and Applications of Isotope Effect in Solids Vladimir G. Plekhanov, 2006

Thin-Film Diamond II Christopher Nebel, 2004-04-19

Part II reviews the state of the art of thin film diamond, a very promising new semiconductor that may one day rival silicon as the material of choice for electronics. Diamond has the following important characteristics: it is resistant to radiation damage, chemically inert, and biocompatible, and it will become the material for bioelectronics in vivo applications, radiation detectors, and high frequency devices. *Thin Film Diamond II* is the first book to summarize the state of the art of CVD diamond in depth. It covers the most recent results regarding growth and structural properties, doping, and defect characterization, hydrogen in and on diamond, as well as surface properties in general, applications of diamond in electrochemistry as detectors, and in surface acoustic wave devices. Accessible by both experts and non-experts in the field of semiconductor research and technology, each chapter is written in a tutorial format, assisting engineers to manufacture devices with optimized electronic properties. Truly international, this volume contains chapters written by recognized experts representing academic and industrial institutions from Europe, Japan, and the US.

Physics, Uspekhi, 2003

Introductory Solid State Physics David C. Johnston, 2025-05-07

Introductory Solid State Physics: An Emphasis on Magnetism acts as a supplement to students tackling solid state physics at both the undergraduate and graduate level. The BCS theory of superconductivity is not included in undergraduate level books because the theory is derived at the graduate level. However, this book uses the equations derived by BCS to calculate the thermodynamic properties of superconductors, such as the temperature dependence of the heat capacity, using techniques accessible to undergraduates. Also covering topics such as wave diffraction, the essentials of thermodynamics, statistical mechanics, and local moment magnetism, it is useful for those studying solid state physics at any level.

Key Features: Includes the BCS theory of superconductivity. Provides material that is accessible to students at all levels. Approaches the subject with a particular emphasis on magnetism.

Advanced Semiconductor and Organic Nano-techniques: Physics and technology of molecular and biotechnology systems, 2003

Comprehensive

Semiconductor Science and Technology, 2011-01-28 Semiconductors are at the heart of modern living Almost everything we do be it work travel communication or entertainment all depend on some feature of semiconductor technology Comprehensive Semiconductor Science and Technology Six Volume Set captures the breadth of this important field and presents it in a single source to the large audience who study make and exploit semiconductors Previous attempts at this achievement have been abbreviated and have omitted important topics Written and Edited by a truly international team of experts this work delivers an objective yet cohesive global review of the semiconductor world The work is divided into three sections The first section is concerned with the fundamental physics of semiconductors showing how the electronic features and the lattice dynamics change drastically when systems vary from bulk to a low dimensional structure and further to a nanometer size Throughout this section there is an emphasis on the full understanding of the underlying physics The second section deals largely with the transformation of the conceptual framework of solid state physics into devices and systems which require the growth of extremely high purity nearly defect free bulk and epitaxial materials The last section is devoted to exploitation of the knowledge described in the previous sections to highlight the spectrum of devices we see all around us Provides a comprehensive global picture of the semiconductor world Each of the work s three sections presents a complete description of one aspect of the whole Written and Edited by a truly international team of experts *Advanced*

Semiconductor and Organic Nano-Techniques Part III Hadis Morkoc, 2003-06-26 Physical sciences and engineering as well as biological sciences have recently made great strides in their respective fields More importantly the cross fertilization of ideas paradigms and methodologies have led to the unprecedented technological developments in areas such as information processing full colour semiconductor displays compact biosensors and controlled drug discovery to name a few Top experts in their respective fields have come together to discuss the latest developments and the future of micro nano electronics They investigate issues to be faced in ultimate limits such as single electron transistors zero dimensional systems for unique properties thresholdless lasers electronics based on inexpensive and flexible plastic chips cell manipulation biosensors DNA based computers quantum computing DNA sequencing chips micro fluidics nanomotors based on molecules molecular electronics and recently emerging wide bandgap semiconductors for emitters detectors and power amplifiers Contributions from top experts in this field Covers a wide range of topics **Advanced Semiconductor and Organic Nano-Techniques**

- Part I Hadis Morkoc, 2003 Physical sciences and engineering as well as biological sciences have recently made great strides in their respective fields More importantly the cross fertilization of ideas paradigms and methodologies have led to the unprecedented technological developments in areas such as information processing full colour semiconductor displays compact biosensors and controlled drug discovery to name a few Top experts in their respective fields have come together to discuss the latest developments and the future of micro nano electronics They investigate issues to be faced in ultimate limits such as single electron transistors zero dimensional systems for unique properties thresholdless lasers electronics based on

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