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J. Bourgoin M. Lannoo

Point Defects in Semiconductors II

Experimental Aspects



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Point Defects In Semiconductors Ii

Kurt Binder, Dieter W. Heermann



Point Defects In Semiconductors II:

Point Defects in Semiconductors II J. Bourgoin, 2012-12-06 In introductory solid state physics texts we are introduced to the concept of a perfect crystalline solid with every atom in its proper place This is a convenient first step in developing the concept of electronic band structure and from it deducing the general electronic and optical properties of crystalline solids However for the student who does not proceed further such an idealization can be grossly misleading A perfect crystal does not exist There are always defects It was recognized very early in the study of solids that these defects often have a profound effect on the real physical properties of a solid As a result a major part of scientific research in solid state physics has from the early studies of color centers in alkali halides to the present vigorous investigations of deep levels in semiconductors been devoted to the study of defects We now know that in actual fact most of the interesting and important properties of solids electrical optical mechanical are determined not so much by the properties of the perfect crystal as by its imperfections

Point Defects in Solids James H. Crawford, Lawrence M. Slifkin, 2012-12-06 Volume 1 of Point Defects in Solids has as its major emphasis defects in ionic solids Volume 2 now extends this emphasis to semiconductors The first four chapters treat in some detail the creation kinetic behavior interactions and physical properties of both simple and composite defects in a variety of semiconducting systems Also included as in Vol 1 are chapters on special topics namely phonon defect interactions and defects in organic crystals Defect behavior in semiconductors has been a subject of considerable interest since the discovery some twenty five years ago that fast neutron irradiation profoundly affected the electrical characteristics of germanium and silicon Present day interest has been stimulated by such semiconductor applications as solar cell power plants for space stations and satellites and semiconductor particle and γ ray detectors since in both radiation damage can cause serious deterioration Of even greater practical concern is the need to understand particle damage in order to capitalize upon the developing technique of ion implantation as a means of device fabrication Although the periodic international conferences on radiation effects in semiconductors have served the valuable function of summarizing the extensive work being done in this field these proceedings are much too detailed and lack the background discussion needed to make them useful to the novice

Defects in Semiconductors II Subhash Mahajan, James W. Corbett, 1983 **Identification of Defects in Semiconductors**, 1998-10-27 **GENERAL DESCRIPTION OF THE SERIES** 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 publishing 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 indeed 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

GENERAL DESCRIPTION OF THE VOLUME This volume has contributions on Advanced Characterization Techniques with a focus on defect identification The combination of beam techniques with electrical and optical characterization has not been discussed elsewhere

Point Defects in Solids Lawrence M. Slifkin, 1972 Volume 1 of Point Defects in Solids has as its major emphasis defects in ionic solids Volume 2 now extends this emphasis to semiconductors The first four chapters treat in some detail the creation kinetic behavior interactions and physical properties of both simple and composite defects in a variety of semiconducting systems Also included as in Vol 1 are chapters on special topics namely phonon defect interactions and defects in organic crystals Defect behavior in semiconductors has been a subject of considerable interest since the discovery some twenty five years ago that fast neutron irradiation profoundly affected the electrical characteristics of germanium and silicon Present day interest has been stimulated by such semiconductor applications as solar cell power plants for space stations and satellites and semiconductor particle and γ ray detectors since in both radiation damage can cause serious deterioration Of even greater practical concern is the need to understand particle damage in order to capitalize upon the developing technique of ion implantation as a means of device fabrication Although the periodic international conferences on radiation effects in semiconductors have served the valuable function of summarizing the extensive work being done in this field these proceedings are much too detailed and lack the background discussion needed to make them useful to the novice

Solid State Physics J. S. Blakemore, 1985-12-12 Updated to reflect recent work in the field this book emphasizes crystalline solids going from the crystal lattice to the ideas of reciprocal space and Brillouin zones and develops these ideas for lattice vibrations for the theory of metals and for semiconductors The theme of lattice periodicity and its varied consequences runs through eighty percent of the book Other sections deal with major aspects of solid state physics controlled by other phenomena superconductivity dielectric and magnetic properties and magnetic resonance

Statistical Physics II Ryogo Kubo, Morikazu Toda, Natsuki Hashitsume, 2012-12-06 Statistical Physics II introduces nonequilibrium theories of statistical mechanics from the viewpoint of the fluctuation dissipation theorem Emphasis is placed on the relaxation from nonequilibrium to equilibrium states the response of a system to an external disturbance and general problems involved in deriving a macroscopic physical process from more basic underlying processes Fundamental concepts and methods are stressed rather than the numerous individual applications

High Magnetic Fields in Semiconductor Physics II Gottfried Landwehr, 2012-12-06 This volume contains contributions presented at the International Conference The Application of High Magnetic Fields in

Semiconductor Physics which was held at the University of Würzburg from August 22 to 26 1988 In the tradition of previous Würzburg meetings on the subject the first conference was held in 1972 only invited papers were presented orally All 42 lecturers were asked to review their subject to some extent so that this book gives a good overview of the present state of the respective topic A look at the contents shows that the subjects which have been treated at previous conferences have not lost their relevance On the contrary the application of high magnetic fields to semiconductors has grown substantially during the recent past For the elucidation of the electronic band structure of semiconductors high magnetic fields are still an indispensable tool The investigation of two dimensional electronic systems especially is frequently connected with the use of high magnetic fields The reason for this is that a high B field adds angular momentum quantization to the boundary quantization present in heterostructures and superlattices A glance at the contributions shows that the majority deal with 2D properties Special emphasis was on the integral and fractional quantum Hall effect Very recent results related to the observation of a fraction with an even denominator were presented It became obvious that the polarization of the different fractional Landau levels is more complicated than originally anticipated

Two-Dimensional Coulomb Liquids and Solids Yuriy Monarkha, Kimitoshi Kono, 2013-03-09 This book is about quantum phenomena in two dimensional 2D electron systems with extremely strong internal interactions The central objects of interest are Coulomb liquids in which the average Coulomb interaction energy per electron is much higher than the mean kinetic energy and Wigner solids The main themes are quantum transport in two dimensions and the dynamics of highly correlated electrons in the regime of strong coupling with medium excitations In typical solids the mutual interaction energy of charge carriers is of the same order of magnitude as their kinetic energy and the Fermi liquid approach appears to be quite satisfactory However in 1970 a broad research began to investigate a remarkable model 2D electron system formed on the free surface of superfluid helium In this system complementary to the 2D electronic systems formed in semiconductor interface structures the ratio of the mean Coulomb energy of electrons to their kinetic energy can reach approximately a hundred before it undergoes the Wigner solid WS transition Under such conditions the Fermi liquid description is doubtful and one needs to introduce alternative treatments Similar interface electron systems form on other cryogenic substrates like neon and solid hydrogen

Nanoscale Phase Separation and Colossal Magnetoresistance Elbio Dagotto, 2003-01-17 The study of the spontaneous formation of nanostructures in single crystals of several compounds is now a major area of research in strongly correlated electrons These structures appear to originate in the competition of phases The book addresses nanoscale phase separation focusing on the manganese oxides known as manganites that have the colossal magnetoresistance CMR effect of potential relevance for device applications It is argued that the nanostructures are at the heart of the CMR phenomenon The book contains updated information on manganite research directed to experts both theorists and experimentalists However graduate students or postdocs will find considerable introductory material including elements of computational physics

Optical Response of

Nanostructures Kikuo Cho, 2003-04-23 This book gives a theoretical description of linear and nonlinear optical responses of matter with special emphasis on the microscopic and nonlocal nature of resonant response. It will have a tremendous influence on modern device techniques as it deals with frontier research in response theory.

Monte Carlo Simulation in Statistical Physics Kurt Binder, Dieter W. Heermann, 2013-03-14 Monte Carlo Simulation in Statistical Physics deals with the computer simulation of many body systems in condensed matter physics and related fields of physics chemistry and beyond to traffic flows stock market fluctuations etc. Using random numbers generated by a computer probability distributions are calculated allowing the estimation of the thermodynamic properties of various systems. This book describes the theoretical background to several variants of these Monte Carlo methods and gives a systematic presentation from which newcomers can learn to perform such simulations and to analyze their results. This fourth edition has been updated and a new chapter on Monte Carlo simulation of quantum mechanical problems has been added. To help students in their work a special web server has been installed to host programs and discussion groups <http://www.wcp.tphys.uni-heidelberg.de>. Prof. Binder was the winner of the Berni J. Alder CECAM Award for Computational Physics 2001.

Fractal Concepts in Condensed Matter Physics Tsuneyoshi Nakayama, Kousuke Yakubo, 2013-06-29 Concisely and clearly written this book provides a self-contained introduction to the basic concepts of fractals and demonstrates their use in a range of topics in condensed matter physics and statistical mechanics. The first part outlines different fractal structures observed in condensed matter. The main part of the book is dedicated to the dynamical behaviour of fractal structures including anomalous and percolating systems. The concept of multifractals is illustrated for the metal-insulator quantum phase transition. The authors emphasize the unified description of these different dynamic problems thus making the book accessible to readers who are new to the field.

Electron Correlations in Molecules and Solids Peter Fulde, 2012-12-06 Quantum chemistry and solid state theory are two important related fields of research that have grown up with almost no cross communication. This book bridges the gap between the two. In the first half new concepts for treating weak and strong correlations are developed and standard quantum chemical methods as well as density functional integral and Monte Carlo methods are discussed. The second half discusses applications of the theory to molecules, semiconductors, homogeneous metallic systems, transition metals and strongly correlated systems such as heavy fermion systems and the new high T superconducting materials.

Electronic Conduction in Oxides N. Tsuda, K. Nasu, A. Fujimori, K. Siratori, 2013-03-09 This is a revised version of the first edition published in 1991. At the same time this is a revised version of the Syokabo edition which was written in Japanese and published in 1993 as a revised version of the original edition published in 1983. Compared with the first edition the following revisions have been made: a new chapter on electron-electron interaction has been prepared by a new co-author A. Fujimori. The substances in the previous Chap. 4 have been changed and $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$ substituted for V_2O_5 which has been extensively reviewed in Reviews of Modern Physics Vol. 70 p. 1039 1998 by M. Imada, A. Fujimori and Y. Tokura. Section 4

6 NiO was rewritten by A Fujimori The other chapters have also been revised by each author to accommodate new developments which have appeared since the publication of the first edition As a result the references have been increased from 1088 to 1293 and 83 figures are new or improved The authors are N Tsuda for Chaps 1 2 and Sects 5 1 5 5 and 5 9 K Nasu for Chap 2 A Fujimori for Chap 3 and Sects 5 6 and 5 7 and K Siratori for Sect 5 8 The authors would like to express their gratitude to many authors and publishers for allowing them to reproduce their diagrams and to H K V Latsch and C E Ascheron for their encouragement to complete this book

Photoelectron Spectroscopy Stefan Hüfner, 2013-06-29 Photoelectron Spectroscopy presents an up to date introduction to the field by comprehensively treating the electronic structures of atoms molecules solids and surfaces Brief descriptions are given of inverse photoemission spin polarized photoemission and photoelectron diffraction Experimental aspects are considered throughout the book and the results are carefully interpreted in terms of the theory A wealth of measured data is presented in tabulator form for easy use by experimentalists

Symmetries in Physics Wolfgang Ludwig, Claus Falter, 2012-12-06 Symmetries in Physics presents the fundamental theories of symmetry together with many examples of applications taken from several different branches of physics Emphasis is placed on the theory of group representations and on the powerful method of projection operators The exercises are intended to stimulate readers to apply the techniques demonstrated in the text

Field Theories for Low-Dimensional Condensed Matter Systems Guiseppe Morandi, Pasquale Sodano, Arturo Tagliacozzo, Valerio Tognetti, 2013-03-14 This book is especially addressed to young researchers in theoretical physics with a basic background in Field Theory and Condensed Matter Physics The topics were chosen so as to offer the largest possible overlap between the two expertises selecting a few key problems in Condensed Matter Theory which have been recently revisited within a field theoretic approach The presentation of the material is aimed not only at providing the reader with an overview of this exciting frontier area of modern theoretical physics but also at elucidating most of the tools needed for a technical comprehension of the many papers appearing in current issues of physics journals and hopefully to enable the reader to tackle research problems in this area of physics This makes the material a live creature while not pretending it to be exhaustive it is tutorial enough to be useful to young researchers as a starting point in anyone of the topics covered in the book

Semiconductor Optics 1 Heinz Kalt, Claus F. Klingshirn, 2019-09-20 This revised and updated edition of the well received book by C Klingshirn provides an introduction to and an overview of all aspects of semiconductor optics from IR to visible and UV It has been split into two volumes and rearranged to offer a clearer structure of the course content Inserts on important experimental techniques as well as sections on topical research have been added to support research oriented teaching and learning Volume 1 provides an introduction to the linear optical properties of semiconductors The mathematical treatment has been kept as elementary as possible to allow an intuitive approach to the understanding of results of semiconductor spectroscopy Building on the phenomenological model of the Lorentz oscillator the book describes the

interaction of light with fundamental optical excitations in semiconductors phonons free carriers excitons It also offers a broad review of seminal research results augmented by concise descriptions of the relevant experimental techniques e g Fourier transform IR spectroscopy ellipsometry modulation spectroscopy and spatially resolved methods to name a few Further it picks up on hot topics in current research like quantum structures mono layer semiconductors or Perovskites The experimental aspects of semiconductor optics are complemented by an in depth discussion of group theory in solid state optics Covering subjects ranging from physics to materials science and optoelectronics this book provides a lively and comprehensive introduction to semiconductor optics With over 120 problems more than 480 figures abstracts to each chapter as well as boxed inserts and a detailed index it is intended for use in graduate courses in physics and neighboring sciences like material science and electrical engineering It is also a valuable reference resource for doctoral and advanced researchers

Statistical Physics II Morikazu Toda,R. Kubo,Nobuhiko Saitō,Natsuki Hashitsume,N. Hashitsume,1991-11-14

Statistical Physics II introduces nonequilibrium theories of statistical mechanics from the viewpoint of the fluctuation dissipation theorem Emphasis is placed on the relaxation from nonequilibrium to equilibrium states the response of a system to an external disturbance and general problems involved in deriving a macroscopic physical process from more basic underlying processes Fundamental concepts and methods are stressed rather than the numerous individual applications

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Table of Contents Point Defects In Semiconductors Ii

1. Understanding the eBook Point Defects In Semiconductors Ii
 - The Rise of Digital Reading Point Defects In Semiconductors Ii
 - Advantages of eBooks Over Traditional Books
2. Identifying Point Defects In Semiconductors Ii
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Point Defects In Semiconductors Ii
 - User-Friendly Interface
4. Exploring eBook Recommendations from Point Defects In Semiconductors Ii
 - Personalized Recommendations
 - Point Defects In Semiconductors Ii User Reviews and Ratings
 - Point Defects In Semiconductors Ii and Bestseller Lists
5. Accessing Point Defects In Semiconductors Ii Free and Paid eBooks

- Point Defects In Semiconductors Ii Public Domain eBooks
- Point Defects In Semiconductors Ii eBook Subscription Services
- Point Defects In Semiconductors Ii Budget-Friendly Options
- 6. Navigating Point Defects In Semiconductors Ii eBook Formats
 - ePub, PDF, MOBI, and More
 - Point Defects In Semiconductors Ii Compatibility with Devices
 - Point Defects In Semiconductors Ii Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Point Defects In Semiconductors Ii
 - Highlighting and Note-Taking Point Defects In Semiconductors Ii
 - Interactive Elements Point Defects In Semiconductors Ii
- 8. Staying Engaged with Point Defects In Semiconductors Ii
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Point Defects In Semiconductors Ii
- 9. Balancing eBooks and Physical Books Point Defects In Semiconductors Ii
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Point Defects In Semiconductors Ii
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Point Defects In Semiconductors Ii
 - Setting Reading Goals Point Defects In Semiconductors Ii
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Point Defects In Semiconductors Ii
 - Fact-Checking eBook Content of Point Defects In Semiconductors Ii
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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