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J. Bourgoin M. Lannoo

Point Defects in Semiconductors II

Experimental Aspects



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Point Defects In Semiconductors Ii

**Tsuneyoshi Nakayama, Kousuke
Yakubo**



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 Semiconductors II: Experimental Aspects J. Bourgoin, M. Lannoo, 1983 **Defects in Semiconductors II** Subhash Mahajan, James W. Corbett, 1983 *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 **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 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

Optics of Semiconductors and Their Nanostructures Heinz Kalt, Michael Hetterich, 2004-07-13 In recent years the field of semiconductor optics has been pushed to several extremes The size of semiconductor structures has shrunk to dimensions of a few nanometers the semiconductor light interaction is studied on timescales as fast as a few femtoseconds and transport properties on a length scale far below the wavelength of light have been revealed These advances were driven by rapid improvements in both semiconductor and optical technologies and were further facilitated by progress in the theoretical description of optical excitations in semiconductors This book written by leading experts in the field provides an up to date introduction to the optics of semiconductors and their nanostructures so as to help the reader understand these exciting new developments It also discusses recently established applications such as blue light emitters as well as the quest for future applications in areas such as spintronics quantum information processing and third generation solar cells

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 **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 *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 tabular 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 [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 **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 **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

Correlation Effects in Low-Dimensional Electron Systems Ayao Okiji, Norio Kawakami, 2012-12-06 *Correlation Effects in Low Dimensional Electron Systems* describes recent developments in theoretical condensed matter physics emphasizing exact solutions in one dimension including conformal field theoretical approaches the application of quantum groups and numerical diagonalization techniques Various key properties are presented for two dimensional highly correlated electron systems

Electronic Properties of Polymers Hans Kuzmany, Michael Mehring, Siegmund Roth, 2012-12-06 The International Winter School on Electronic Properties of Polymers Orientation and Dimensionality of Conjugated Systems held March 9-16 1991 in Kirchberg Tyrol Austria was a sequel to three meetings on similar subjects held there The 1991 winter school was again organized in cooperation with the Bundesministerium für Wissenschaft und Forschung in Austria and with the Bundesministerium für Forschung und Technologie in the Federal Republic of Germany The basic idea of the meeting was to provide an opportunity for experienced scientists from universities and industry to discuss their most recent results and for students and young scientists to become familiar with the present status of research and applications in the field Like the previous winter schools on polymers this one concentrated on the electronic structure and potential for application of polymers with conjugated double bonds This time however special attention was paid to the effects of orientation and dimensionality Anisotropy of the electric conductivity in stretch oriented samples and whether the transport mechanisms are one two or three dimensional or might even have a fractal dimensionality were therefore central topics The problem of orientation was extended to systems such as Langmuir Blodgett films and other layered structures Accordingly thin films were the focus of most of the application oriented contributions Whereas in the previous winter schools discussions on applications dealt with large volume applications such as electromagnetic shielding and energy storage this time molecular materials for electronics and prospects of molecular electronics were at the center of interest

Electronic Properties of Fullerenes Hans Kuzmany, Jörg Fink, Michael Mehring, Siegmund Roth, 2012-12-06 *Electronic Properties of Fullerenes and other Novel Materials* gives an overview of the state of the art research It presents most recent results on preparation experimental analysis by

electron spectroscopy infrared and Raman spectroscopy luminescence and nonlinear optical as well as possible technological applications Emphasis is also placed on the superconducting properties of Fullerenes The introductory and advanced contributions provide a good survey of the current status of this rapidly developing field

The Quantum Hall Effects

Tapash Chakraborty, Pekka Pietiläinen, 2013-03-12 The experimental discovery of the fractional quantum Hall effect FQHE at the end of 1981 by Tsui Stormer and Gossard was absolutely unexpected since at this time no theoretical work existed that could predict new structures in the magnetotransport coefficients under conditions representing the extreme quantum limit It is more than thirty years since investigations of bulk semiconductors in very strong magnetic fields were begun Under these conditions only the lowest Landau level is occupied and the theory predicted a monotonic variation of the resistivity with increasing magnetic field depending sensitively on the scattering mechanism However the experimental data could not be analyzed accurately since magnetic freeze out effects and the transitions from a degenerate to a nondegenerate system complicated the interpretation of the data For a two dimensional electron the positive background charge is well separated from the two gas where dimensional system magnetic freeze out effects are barely visible and an analysis of the data in the extreme quantum limit seems to be easier First measurements in this magnetic field region on silicon field effect transistors were not successful because the disorder in these devices was so large that all electrons in the lowest Landau level were localized Consequently models of a spin glass and finally of a Wigner solid were developed and much effort was put into developing the technology for improving the quality of semiconductor materials and devices especially in the field of two dimensional electron systems

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