

R. Könenkamp

**Photoelectric  
Properties  
and Applications  
of Low-Mobility  
Semiconductors**



Springer

# Photoelectric Properties And Applications Of Lowmobility Semiconductors

**Hiroshi Kudo**



## **Photoelectric Properties And Applications Of Lowmobility Semiconductors:**

**Photoelectric Properties and Applications of Low-Mobility Semiconductors** Rolf Könenkamp, 2003-07-01 This volume discusses the photoelectric behavior of three semiconducting thin film materials hydrogenated amorphous silicon a Si H nano porous titanium dioxide and the fullerene C60 Despite the fundamental structural differences between these materials their electronic properties are at least on the phenomenological level surprisingly similar since all three materials have rather low carrier mobilities In the last decade a Si H has conquered large market segments in photo voltaics fiat panel displays and detector applications It is surely the most advanced and best understood of the three materials Nano porous TiO2 is used successfully in a novel solar cell featuring an organic dye absorber This product is now at the brink of commercialization while electronic applica tions for C60 still appear to be in the exploration phase At this stage it appears that some of the insight and many of the exper imental techniques used in the development of a Si H may prove useful in the on going and yet very basic study of TiO2 and C60 thin films This idea is the guideline to this book Without being comprehensive on the part of amorphous silicon it attempts to outline basic characterization schemes for the nano porous and fullerene materials and to evaluate their potential for applications with respect to a reference which is given by a Si H

**Compton Scattering** Frank Wissmann, 2003-12-03 A comprehensive summary of experiments on Compton scattering from the proton and neutron performed at the electron accelerator MAMI The experiments cover a photon energy range from 30 MeV to 500 MeV The reader is introduced to the theoretical concepts of Compton scattering followed by a description of the experiments on the proton their analysis and results

**X-Ray Diffuse Scattering from Self-Organized Mesoscopic Semiconductor Structures** Martin Schmidbauer, 2004-01-09 This monograph represents a critical survey of the outstanding capabilities of X ray diffuse scattering for the structural characterization of mesoscopic material systems The mesoscopic regime comprises length scales ranging from a few up to some hundreds of nanometers It is of particular relevance at semiconductor layer systems where for example interface roughness or low dimensional objects such as quantum dots and quantum wires have attracted much interest An extensive overview of the present state of the art theory of X ray diffuse scattering at mesoscopic structures is given followed by a valuable description of various experimental techniques Selected up to date examples are discussed The aim of the present book is to combine aspects of self organized growth of mesoscopic structures with corresponding X ray diffuse scattering experiments

**Electronic Quantum Transport in Mesoscopic Semiconductor Structures** Thomas Ihn, 2004-09-09 The physics of semiconductors has seen an enormous evolution within the last fty years Countless achievements have been made in scienti c research and device applications have revolutionized everyday life We have learned how to customize materials in order to tailor their optical as well as electronic properties The on ing trend toward device miniaturization has been the driving force on the appli tion side and it has fertilized fundamental research Nowadays advanced processing techniques allow the fabrication of sub micron semiconductor structures in many

university research laboratories At the same time experiments down to millikelvin temperatures allow researchers to anticipate the observation of quantum phenomena so far hidden at room temperature by the large thermal energy and strong dephasing The field of mesoscopic physics deals with systems under experimental conditions where several quantum length scales for electrons such as system size and phase coherence length or phase coherence length and elastic mean free path are comparable Intense research over the last twenty years has revealed an enormous richness of quantum effects in mesoscopic semiconductor physics which is typically characterized by an interplay of quantum interference and many body interactions The most famous phenomena are probably the integer and fractional quantum Hall effects the quantization of conductance through a quantum point contact the Aharonov Bohm effect and single electron charging of quantum dots

**Semiconductor Cavity Quantum Electrodynamics** Y. Yamamoto, F. Tassone, H. Cao, 2003-07-01 This monograph is the first to give a comprehensive account of the theory of semiconductor cavity quantum electrodynamics for such systems in the weak coupling and strong coupling regimes It presents the important concepts together with relevant recent experimental results

**Spatio-Temporal Dynamics and Quantum Fluctuations in Semiconductor Lasers** Edeltraud Gehrig, Ortwin Hess, 2003-09-22 Presents fundamental theories and simulations of the spatio temporal dynamics and quantum fluctuations in semiconductor lasers The dynamic interplay of light and matter is theoretically described by taking into account microscopic carrier dynamics spatially dependent light field propagation and the influence of spontaneous emission and noise

**Ultrathin Metal Films** Matthias Wuttig, X. Liu, 2004-11-17 This research monograph discusses the close correlation between the magnetic and structural properties of thin films in the context of numerous examples of epitaxial metal films while emphasis is laid on the stabilization of novel structures compared to the bulk material Further options possibilities and limits for applications are given Techniques for the characterization of thin films are addressed as well

**Parametric X-Ray Radiation in Crystals** Vladimir G. Baryshevsky, Ilya D. Feranchuk, Alexander P. Ulyanenko, 2005-12-20 This systematic and comprehensive monograph is devoted to parametric X ray radiation PXR This radiation is generated by the motion of electrons inside a crystal whereby the emitted photons are diffracted by the crystal and the radiation intensity critically depends on the parameters of the crystal structure Nowadays PXR is the subject of numerous theoretical and experimental studies throughout the world The first part of the book is a theoretical treatment of PXR which includes a new approach to describe the radiation process in crystals The second part is a survey of PXR experimental results and the possible applications of PXR as a tool for crystal structure analysis and a source of tunable X ray radiation

**Three-Dimensional X-Ray Diffraction Microscopy** Henning Friis Poulsen, 2004-08-31 Three dimensional x ray diffraction 3DXRD microscopy is a novel experimental method for structural characterisation of polycrystalline materials The position morphology phase strain and crystallographic orientation of hundreds of grains or sub grain embedded within mm cm thick specimens can be determined simultaneously Furthermore the dynamics of the individual structural elements can be monitored during typical

processes such as deformation or annealing The book gives a comprehensive account of the methodology followed by a summary of selected applications The method is presented from a mathematical crystallographic point of view but with sufficient hands on details to enable the reader to plan his or her own experiments The scope of applications includes work in materials science and engineering geophysics geology chemistry and pharmaceutical science     **Unconventional**

**Superconductors** Gernot Goll,2006 This book offers a comprehensive summary of experiments that are especially suited to reveal the order parameter symmetry of unconventional superconductors It briefly introduces readers to the basic theoretical concepts and terms of unconventional superconductivity followed by a detailed overview of experimental techniques and results investigating the superconducting energy gap and phase plus the pairing symmetry This review includes measurements of specific heat thermal conductivity penetration depth and nuclear magnetic resonance and muon spin rotation experiments Further point contact and tunnelling spectroscopy and Josephson experiments are addressed Current understanding is reviewed from the experimental point of view With an appendix offering five tables with almost 200 references that summarize the present results from ambient pressure heavy fermion and noncopper oxide superconductors the monograph provides a valuable resource for further studies in this field     *Stopping of Heavy Ions* Peter

Sigmund,2004-07-09 This book offers a concise presentation of theoretical concepts characterizing and quantifying the slowing down of swift heavy ions in matter Although the penetration of charged particles through matter has been studied for almost a hundred years the quantitative theory for swift penetrating ions heavier than helium has been developed mainly during the past decade and is still progressing rapidly The book addresses scientists and engineers working at accelerators with an interest in materials analysis and modification medical diagnostics and therapy mass spectrometry and radiation damage as well as atomic and nuclear physicists Although not a textbook this monograph represents a unique source of state of the art information that is useful to a university teacher in any course involving the interaction of charged particles with matter     Emulsion Science Jérôme Bibette,Fernando Leal-Calderon,Véronique Schmitt,Philippe Poulin,2003-07-01

Emulsions occur either as end products or during the processing of products in a huge range of areas including the food agrochemical pharmaceuticals paints and oil industries As end products emulsions allow to avoid organic solvent in processing hydrophobic coatings Emulsion technology is a suitable approach to vehicle viscous phases It is also a remarkable mean of targeting actives or capturing specific species The range of applications of emulsions progresses and their manufacturing becomes more and more sophisticated Besides this broad domain of technological interest emulsions are raising a variety of fundamental questions at the frontier between physics and chemistry Indeed as a class of soft colloidal materials emulsions science is linked to various aspects of these disciplines phase transitions surface forces and wetting metastability and hydrodynamic instabilities mechanical properties and flow The aim of this book is to review the main important concepts governing emulsion science In Chapter 2 repulsive interactions between liquid films are discussed as well

as adhesive interaction related to wetting In Chapter 3 consequences of weak and strong attractions are presented related to the well accepted liquid solid transition analogy In Chapter 4 the basics of both bulk compressibility and shear elasticity are presented the role of disorder being the most important aspect of the elastic behavior of these soft systems In Chapter 5 the central question of the emulsion lifetime related to metastability is discussed

**Heavy Quark Effective Theory** Andrey G. Grozin, 2004-04-07 This up to date review also serves as an introduction to Heavy Quark Effective Theory HQET a new approach to heavy quark physics problems in Quantum Chromodynamics QCD The book also contains a detailed discussion of the methods of calculation used in HQET along with numerous illustrations

*Coverings of Discrete Quasiperiodic Sets* Peter Kramer, 2002-09-18 Coverings are efficient ways to exhaust Euclidean  $N$  space with congruent geometric objects Discrete quasiperiodic systems are exemplified by the atomic structure of quasicrystals The subject of coverings of discrete quasiperiodic sets emerged in 1995 The theory of these coverings provides a new and fascinating perspective of order down to the atomic level The authors develop concepts related to quasiperiodic coverings and describe results Specific systems in 2 and 3 dimensions are described with many illustrations The atomic positions in quasicrystals are analyzed

**Ion-Induced Electron Emission from Crystalline Solids** Hiroshi Kudo, 2003-07-01 This monograph deals with ion induced electron emission from crystalline solids bombarded by fast ions During the past decade electron spectroscopy combined with the ion channeling technique has revealed various messages about ion solid and electron solid interactions carried by the emitted electrons While the ion induced electrons produced by binary encounter processes are of primary interest in this book closely related topics such as the emission of ion induced Auger electrons from crystal targets are also reviewed with emphasis on their interdisciplinary aspects for example their relation to photoelectron diffraction In addition to these topics the book describes the underlying physics and experimental techniques so that it should provide useful information for students and scientists working in ion beam based research and development in various areas of atomic and solid state physics materials science surface science etc I am much indebted to the generations of students who have passed through my laboratory since they have stimulated me with elementary but essential questions in various phases of the studies I am also grateful to T Azuma Y Kido K Kimura H Naramoto and S Seki for critical reading of the manuscript Tsukuba August 2001

Hiroshi Kudo Contents Introduction 1 1o Terminology and Table of Symbols 5 2 2 1 Notes on Terminology 5 2 2 Frequently Used Symbols 6 3 Binary Encounter Electron Emission 7 3 1 Ion Electron Elastic Collisions 7 3 2 Recoil Cross Section of Orbital Electrons

**Spinning Particles - Semiclassics and Spectral Statistics** Stefan Keppeler, 2003-09-11 The main theme of this book is semiclassical methods for systems with spin in particular methods involving trace formulae and torus quantisation and their applications in the theory of quantum chaos e g the characterisation of spectral correlations The theoretical tools developed here not only have immediate applications in the theory of quantum chaos which is the second focus of the book but also in atomic and mesoscopic physics Thus the intuitive understanding of semiclassical spin dynamics

will also be helpful in emerging subjects like spintronics and quantum computation      **Uncovering CP Violation** Konrad Kleinknecht, 2003-10-23 Description of experiments that uncovered the nature of CP violation and the phenomenology describing CP violation The author Konrad Kleinknecht received the Leibniz award of the Deutsche Forschungsgemeinschaft 1990 and the Gentner Kastler prize and medal of SFP and DPG 2001      *Electroweak Symmetry Breaking* Wolfgang Kilian, 2003-09-02 The systematic bottom up approach provides the appropriate framework for interpreting measurements that will be performed to better understand the physics of mass generation in the universe No knowledge of quantum field theory is required other than familiarity with effective Lagrangians and Feynmann diagrams      **Light Emitting Silicon for Microphotonics** Stefano Ossicini, Lorenzo Pavesi, Francesco Priolo, 2003-11-12 A fascinating insight into the state of the art in silicon microphotonics and on what we can expect in the near future The book presents an overview of the current understanding of getting light from silicon It concentrates mainly on low dimensional silicon structures like quantum dots wires and wells but covers also alternative approaches like porous silicon and the doping of silicon with rare earths The emphasis is on the experimental and theoretical achievements concerning the optoelectronic properties of confined silicon structures obtained during recent years Silicon based photonic crystals are in particular considered An in depth discussion of the route towards a silicon laser is presented      Ising-type Antiferromagnets Christian Binek, 2003-09-22 Selected modern aspects of artificially layered structures and bulk materials involving antiferromagnetic long range order are the main themes of this book Special emphasis is laid on the prototypical behavior of Ising type model systems They play a crucial role in the field of statistical physics and in addition contribute to the basic understanding of the exchange bias phenomenon in MBE grown magnetic heterosystems Throughout the book particular attention is given to the interplay between experimental results and their theoretical description ranging from the famous Lee Yang theory of phase transitions to novel mechanisms of exchange bias

## Unveiling the Energy of Verbal Art: An Mental Sojourn through **Photoelectric Properties And Applications Of Lowmobility Semiconductors**

In a world inundated with screens and the cacophony of instant transmission, the profound energy and mental resonance of verbal beauty usually disappear into obscurity, eclipsed by the continuous onslaught of sound and distractions. However, nestled within the lyrical pages of **Photoelectric Properties And Applications Of Lowmobility Semiconductors**, a interesting work of literary brilliance that impulses with raw feelings, lies an remarkable journey waiting to be embarked upon. Published by way of a virtuoso wordsmith, this enchanting opus instructions visitors on an emotional odyssey, softly revealing the latent potential and profound influence embedded within the intricate internet of language. Within the heart-wrenching expanse with this evocative examination, we will embark upon an introspective exploration of the book is main subjects, dissect their fascinating writing type, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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