

G. H. Ristow

Pattern Formation in Granular Materials



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Pattern Formation In Granular Materials Springer Tracts In Modern Physics

A. Faessler, T.S. Kosmas, G.K. Leontaris



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Transverse-Pattern Formation in Photorefractive Optics Cornelia Denz, Michael Schwab, Carsten Weillnau, 2003-09-22 Overview of current developments in nonlinear photorefractive optics The book discusses exciting discoveries with special emphasis on transverse effects such as spatial soliton formation and interaction spontaneous pattern formation and pattern competition in active feedback systems Different aspects of potential applications such as wave guiding in adaptive photorefractive solitons and techniques for pattern control for information processing are also described

Transmission Electron Microscopy of Semiconductor Nanostructures Andreas Rosenauer, 2003-07-03 This book provides tools well suited for the quantitative investigation of semiconductor electron microscopy These tools allow for the accurate determination of the composition of ternary semiconductor nanostructures with a spatial resolution at near atomic scales The book focuses on new methods including strain state analysis as well as evaluation of the composition via the lattice fringe analysis CELFA technique The basics of these procedures as well as their advantages drawbacks and sources of error are all discussed The techniques are applied to quantum wells and dots in order to give insight into kinetic growth effects such as segregation and migration In the first part of the book the fundamentals of transmission electron microscopy are provided These are needed for an understanding of the digital image analysis techniques described in the second part of the book There the reader will find information on different methods of composition determination The third part of the book focuses on applications such as composition determination in InGaAs Stranski Krastanov quantum dots Finally it is shown how an improvement in the precision of the composition evaluation can be obtained by combining CELFA with electron holography This is demonstrated for an AlAs GaAs superlattice

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 *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 *Deep Inelastic Positron-Proton Scattering in the High-Momentum-Transfer Regime of HERA* Ulrich F. Katz, 2000-09-04 About three decades after the first experiments on deep inelastic lepton hadron scattering began to investigate the structure of hadrons the history of this fruitful field of particle physics continues in the broad spectrum of research performed at the electron and positron proton collider HERA at DESY where the multipurpose detectors ZEUS and H1 access ep scattering at a center of mass energy of 300 GeV and explore as yet uncharted kinematic realms of deep inelastic scattering After the first years of data taking at HERA each of the experiments has collected a total of roughly 40 pb¹ of e p data yielding sensitivity to deep inelastic e p interactions at high four momentum transfers Q² where typical cross sections drop into the subpicobarn regime This kinematic domain is characterized by electroweak unification manifesting itself most markedly in the neutral and charged current cross sections which approach an equal order of magnitude as Q² rises above the square of the W and Z masses Consequently HERA allows for the first time studies of both types of processes simultaneously with the same initial state conditions and in the same detector and thus we can investigate the interplay of electroweak and strong forces governing the respective cross sections **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 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 *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

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

Symmetries in Intermediate and High Energy Physics A. Faessler, T.S. Kosmas, G.K. Leontaris, 2000-03-15 This book contains comprehensive reviews of modern topics in nuclear physics particle physics astrophysics and cosmology Special emphasis is placed on the role of several symmetries in physics at intermediate and high energies and on neutrino physics with its implications in nuclear astrophysics and cosmology Many applications of the theories and experiments are included along with interesting information on recent developments with respect to current problems in modern physics Thus it will be especially useful to new scientists and graduate students

d-d Excitations in Transition-Metal Oxides Bärbel Fromme, 2007-08-03 In this monograph investigations of the electronic structures of the transition metal oxides MnO CoO and NiO with spin polarized electron energy loss spectroscopy are presented and compared with other experimental and theoretical results After a review of the present knowledge of the electronic structure of the monoxides the spectroscopic method applied and its special advantages are described The knowledge and use of the different spin angle and primary energy dependences of the various relevant inelastic electron scattering mechanisms provide new insights into the excitation processes of the optically forbidden transitions between the crystal field split 3d states of the bulk and of the surface

Electronic Quantum Transport in Mesoscopic Semiconductor Structures Thomas Ihn, 2004-09-09 The physics of semiconductors has seen an enormous evolution within the last fifty years Countless achievements have been made in scientific 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 ongoing trend toward device miniaturization has been the driving force on the application 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.

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

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High-Tc Superconductors for Magnet and Energy Technology Beate Lehndorff, 2003-07-01. Since the discovery of high temperature superconductors, the scientific community has been very active in research on material and system development as well as on the basic understanding of the mechanism of superconductivity at high transition temperatures. Industrial groups joined in very soon as with these new materials the prospects for commercial application of superconductivity seemed to be more promising than ever. Materials processing was divided into film deposition and bulk preparation techniques, the latter including conductor fabrication and melt growth of monolithic samples as well. Because of the high impact of possible applications in energy technology, wire and tape fabrication of the BSCCO superconductors is one of the most important fields in addition to thin film technology for mobile communication. Only since processes like IBAD and RABiTSTM were invented have film deposition techniques also become important for energy technology. In order to produce suitable conductors with material properties which meet the challenge imposed by energy technology, detailed understanding of the phase formation and physical properties of the high temperature superconductors is necessary. The goal of this book is on one hand to provide the basic information on phase formation and physical properties and to give a short overview of the state of the art in conductor preparation and characterization. On the other hand, it contains the author's own results in the

field of preparation and characterization **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 *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 Dissipative Quantum Chaos and Decoherence Daniel Braun, 2003-07-01 Dissipative Quantum Chaos and Decoherence provides an overview of the state of the art of research in this exciting field The main emphasis is on the development of a semiclassical formalism that allows one to incorporate the effect of dissipation and decoherence in a precise yet tractable way into the quantum mechanics of classically chaotic systems The formalism is employed to reveal how the spectrum of the quantum mechanical propagator of a density matrix is determined by the spectrum of the corresponding classical propagator of phase space density Simple quantum classical hybrid formulae for experimentally relevant correlation functions and time dependent expectation values of observables are derived The problem of decoherence is treated in detail and highly unexpected cases of very slow decoherence are revealed with important consequences for the long debated realizability of Schrödinger cat states as well as for the construction of quantum computers

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