

Topics in Current Physics

Physics of **Superionic Conductors**

Editor: M. B. Salamon

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N Colangelo



Physics Of Superionic Conductors Topics In Current Physics Vol 15:

Experimentelle Technik der Physik, 1982 The Journal of Physics and Chemistry of Solids, 1984 Statistical Mechanics of Driven Diffusive Systems, 1995-07-24 Far from equilibrium phenomena while abundant in nature are not nearly as well understood as their equilibrium counterparts On the theoretical side progress is slowed by the lack of a simple framework such as the Boltzmann Gibbs paradigm in the case of equilibrium thermodynamics On the experimental side the enormous structural complexity of real systems poses serious obstacles to comprehension Similar difficulties have been overcome in equilibrium statistical mechanics by focusing on model systems Even if they seem too simplistic for known physical systems models give us considerable insight provided they capture the essential physics They serve as important theoretical testing grounds where the relationship between the generic physical behavior and the key ingredients of a successful theory can be identified and understood in detail Within the vast realm of non equilibrium physics driven diffusive systems form a subset with particularly interesting properties As a prototype model for these systems the driven lattice gas was introduced roughly a decade ago Since then a number of surprising phenomena have been discovered including singular correlations at generic temperatures as well as novel phase transitions universality classes and interfacial instabilities This book summarizes current knowledge on driven systems from a pedagogical discussion of the original driven lattice gas to a brief survey of related models Given that the topic is far from closed much emphasis is placed on detailing open questions and unsolved problems as an incentive for the reader to pursue the subject further Provides a summary of current knowledge on driven diffusive systems Emphasis is placed on detailing open questions and unsolved problems Covers the entire subject from original driven lattice gas to a survey of related models **EXAFS Spectroscopy** B. K. Teo, D. C. Joy, 2013-04-17 This book on Extended X Ray Absorption Fine Structure EXAFS Spectroscopy grew out of a symposium with the same title organized by us at the 1979 Meeting of the Materials Research Society MRS in Boston MA That meeting provided not only an overview of the theory instrumentation and practice of EXAFS Spectroscopy as currently employed with photon beams but also a forum for a valuable dialogue between those using the conventional approach and those breaking fresh ground by using electron energy loss spectroscopy EELS for EXAFS studies This book contains contributions from both of these groups and provides the interested reader with a detailed treatment of all aspects of EXAFS spectroscopy from the theory through consideration of the instrumentation for both photon and electron beam purposes to detailed descriptions of the applications and physical limitations of these techniques While some of the material was originally presented at the MRS meeting all of the chapters have been specially written for this book and contain much that is new and significant *Structural Phase Transitions I* K.A. Müller, H. Thomas, 2012-12-06 With contributions by numerous experts December 16 Görlich, 2022-01-19 No detailed description available for December 16 **Neutron Scattering and Muon Spin Rotation**, 2006-04-11 The Fokker-Planck Equation Hannes Risken, Till Frank, 2012-12-06 One of the central problems synergetics is

concerned with consists in the study of macroscopic qualitative changes of systems belonging to various disciplines such as physics chemistry or electrical engineering When such transitions from one state to another take place fluctuations i e random processes may play an important role Over the past decades it has turned out that the Fokker Planck equation provides a powerful tool with which the effects of fluctuations close to transition points can be adequately treated and that the approaches based on the Fokker Planck equation are superior to other approaches e g based on Langevin equations Quite generally the Fokker Planck equation plays an important role in problems which involve noise e g in electrical circuits For these reasons I am sure that this book will find a broad audience It provides the reader with a sound basis for the study of the Fokker Planck equation and gives an excellent survey of the methods of its solution The author of this book Hannes Risken has made substantial contributions to the development and application of such methods e g to laser physics diffusion in periodic potentials and other problems Therefore this book is written by an experienced practitioner who has had in mind explicit applications to important problems in the natural sciences and electrical engineering **Springer Tracts in**

Modern Physics ,1980 **New Technical Books** New York Public Library,1986 Physics in One Dimension ,1981

Russian Journal of Physical Chemistry ,2000 **Electron Transport in Compound Semiconductors** B.R.

Nag,2012-12-06 Discovery of new transport phenomena and invention of electron devices through exploitation of these phenomena have caused a great deal of interest in the properties of compound semiconductors in recent years Extensive research has been devoted to the accumulation of experimental results particularly about the artificially synthesised compounds Significant advances have also been made in the improvement of the related theory so that the values of the various transport coefficients may be calculated with sufficient accuracy by taking into account all the complexities of energy band structure and electron scattering mechanisms Knowledge about these developments may however be gathered only from original research contributions scattered in scientific journals and conference proceedings Review articles have been published from time to time but they deal with one particular material or a particular phenomenon and are written at an advanced level Available text books on semiconductor physics do not cover the subject in any detail since many of them were written decades ago There is therefore a definite need for a book giving a comprehensive account of electron transport in compound semiconductors and covering the introductory material as well as the current work The present book is an attempt to fill this gap in the literature The first chapter briefly reviews the history of the development of compound semiconductors and their applications It is also an introduction to the contents of the book **Soviet Physics, Solid State** ,1993

Journal of Experimental and Theoretical Physics ,1996 **Modeling of Complex Systems** P. Garrido,Joaquín

Marro,2003-04-04 Annotation The seminar is a small topical conference whose pedagogical focus is on young researchers The 34 main lectures and other invited talks discuss such topics as exploring complex graphs by random walks critical behavior of binary production reaction diffusion systems the plastic phase of driven vortex crystals real space statistical

properties of standard cosmological models and basic concepts and physical implementations of quantum computation In addition 40 half page abstracts summarize a selection of contributed papers Those topics include the Yaldran Khan catalyzed reaction model the role of interfaces in the propagation of damage in the confined Ising model and theories of the motion of the satellites of Mars There is no indexing other than an author list Annotation c 2003 Book News Inc Portland OR booknews.com XXIInd Congress Ampere on Magnetic Resonance and Related Phenomena Karl A. Müller,R. Kind,J. Roos,1984
 American Journal of Physics ,1980 *Applied Physics* ,1982-05 *Nontraditional Methods in Diffusion* G. E. Murch,H. K. Birnbaum,J. R. Cost,1984

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