

World Scientific Series on Directions in Condensed Matter Physics — Vol. 1

DIRECTIONS IN CONDENSED MATTER PHYSICS

Memorial Volume in Honor of Shang-keng Ma

Edited by

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World Scientific



Directions In Condensed Matter Physics

G Grinstein (ed)



Directions In Condensed Matter Physics:

Directions In Condensed Matter Physics: Memorial Volume In Honor Of Shang-keng Ma Geoffrey Grinstein, G Mazenko, 1986-08-01 This volume collects several in depth articles giving lucid discussions on new developments in statistical and condensed matter physics Many though not all contributors had been in touch with the late S K Ma Written by some of the world s experts and originators of new ideas in the field this book is a must for all researchers in theoretical physics Most of the articles should be accessible to diligent graduate students and experienced readers will gain from the wealth of materials contained herein **Directions in Condensed Matter Physics** ,19?? *Directions in Condensed Matter Physics (Volume 1)*. G Grinstein (ed), 1986 *World Scientific Series on Directions in Condensed Matter Physics* Geoffrey Grinstein, Gene Mazenko, 1985 **Series on Directions in Condensed Matter Physics** ,1989 *World Scientific Series on Directions in Condensed Matter Physics* ,1986 *Geometry in Condensed Matter Physics* J. F. Sadoc, 1990 The subject of geometry has become an important ingredient in condensed matter physics It appears not only to describe but also to explain structures and their properties There are two aspects to using geometry the visual and intuitive understanding which fosters an immediate grasp of the objects one studies and the abstract tendency so well developed in the Riemannian manifold theory Both aspects contribute to the same understanding when they are applied to the main problems occurring in condensed matter sciences Sophisticated structures found in nature appear naturally as the result of simple constraints which are presented in geometrical terms Blue phases amorphous and glassy materials Frank and Kasper Metals quasi crystals are approached in their complexity using the simple principles of geometry The relation between biology and liquid crystal sciences the physics of membranes is a fundamental aspect presented in this book **Future Directions for Condensed Matter Physics** David Neilson, 1999 **World Scientific Series on Directions in Condensed Matter Physics** Shang-keng Ma, 1986 **Directions In Chaos - Volume 2** Bailin Hao, 1988-04-01 Volume 2 of Directions in Chaos consists of the contributions made to the Beijing Summer School on Chaotic Phenomena in Nonlinear Systems held in August 1987 *Directions in Chaos* ,1988 **Condensed Matter Physics in the Prime of 21st Century** Janusz Jedrzejewski, 2008 This is a collection of lectures by 11 active researchers renowned specialists in a number of modern promising dynamically developing research directions in condensed matter solid state theory The lectures are concerned with phenomena materials and ideas discussing theoretical and experimental features as well as with methods of calculation Readers will find up to date presentations of the methods of carrying out efficient calculations for electronic systems and quantum spin systems together with applications to describe phenomena and to design new materials These applications include systems of quantum dots quantum gates semiconductor materials for spintronics and the unusual characteristics of warm dense matter **Scattering and Localization of Classical Waves in Random Media** Ping Sheng, 1990 The past decade has witnessed breakthroughs in the understanding of the wave localization phenomena and its implications for wave

multiple scattering in inhomogeneous media This book brings together review articles written by noted researchers in this field in a tutorial manner so as to give the readers a coherent picture of its status It would be valuable both as an up to date reference for active researchers as well as a readable source for students looking to gain an understanding of the latest results

P.g. De Gennes' Impact On Science - Volume Ii: Soft Matter And Biophysics Julien Bok, Jacques Prost, Francoise Brochard-wyart, 2009-07-29 This publication in two volumes is devoted to the scientific impact of the work of Nobel Laureate Pierre Gilles de Gennes one of the greatest scientists of the 20th century It covers the important fields for which de Gennes was renowned solid state magnetism and superconductivity macroscopic random media and percolation supersolids liquid crystals polymers adhesion and friction and biophysics The book brings together internationally renowned experts to contribute their perspectives on the significance of de Gennes works They have each selected a definitive paper which gives the state of the field at the time the paper was published highlights the paper s importance and provides an analysis of the development of the field right up to the modern day The insightful perspectives of these scientists make the book both unique and intriguing This is the second volume devoted to soft matter and biophysics

The Superconducting State in Magnetic Fields Carlos A. R. Sa de Melo, 1998 This volume is an exciting collection of short review articles written by leading international experts on the superconducting state in magnetic fields a rapidly developing area The philosophy of the book is to emphasize the importance of having experimental and theoretical works side by side Every effort has been made to match each experimental article with a corresponding theoretical article The selection of materials includes special topics new effects and new trends concerning superconductors in low and high magnetic fields The special topics and new trends include quantum and classical melting of the vortex lattice new vortex lattice symmetries vortex core states nonlinear Meissner effect symmetry of the order parameter in high temperature superconductors and superconductors in high magnetic fields The book is targeted at a broad audience including graduate students postdocs and other researchers active or interested in this field

Thin Films: Heteroepitaxial Systems Amy W K Liu, Michael B Santos, 1999-06-01 Heteroepitaxial films are commonplace among today s electronic and photonic devices The realization of new and better devices relies on the refinement of epitaxial techniques and improved understanding of the physics underlying epitaxial growth This book provides an up to date report on a wide range of materials systems The first half reviews metallic and dielectric thin films including chapters on metals rare earths metal oxide layers fluorides and high Tc superconductors The second half covers semiconductor systems reviewing developments in group IV arsenide phosphide antimonide nitride II VI and IV VI heteroepitaxy Topics important to several systems are covered in chapters on atomic processes ordering and growth dynamics

Morphological Organization In Epitaxial Growth And Removal Max G Lagally, Zhenyu Zhang, 1999-01-29 This book provides a critical assessment of the current status and the likely future directions of thin film growth an area of exceptional technological importance Its emphasis is on descriptions of the atomic scale mechanisms controlling the

dynamics and thermodynamics of the morphological evolution of the growth front of thin films in diverse systems of fundamental and technological significance The book covers most of the original and important conceptual developments made in the 1990s The articles written by leading experts are arranged in five major categories the theoretical basis semiconductor on semiconductor growth metal on metal growth metal on semiconductor growth and removal as the inverse process of growth This book the only one of its kind in this decade will prove to be an indispensable reference source for active researchers those having peripheral interest and graduate students starting out in the field **Defect Processes**

Induced by Electronic Excitation in Insulators Noriaki Itoh,1989 <http://www.worldscientific.com/worldscibooks/10.1142/0445> *Interaction Of Electromagnetic Field With Condensed Matter* Nickolai N Bogolubov Jr,A S Shumovsky,V I

Yukalov,1990-06-30 This book covers a wide range of topics on the interaction of alternating magnetic field with condensed matter including superradiant process proton echo gamma resonance scattering of light by condensed matter near critical points electromagnetically induced phase transitions and some mathematical problems describing the phenomena mentioned

Directions In Chaos - Volume 1 Bailin Hao,1987-12-01 This volume the first of a two volume book consists of a collection of comprehensive reviews and lectures written by active researchers on topics in chaotic phenomena

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