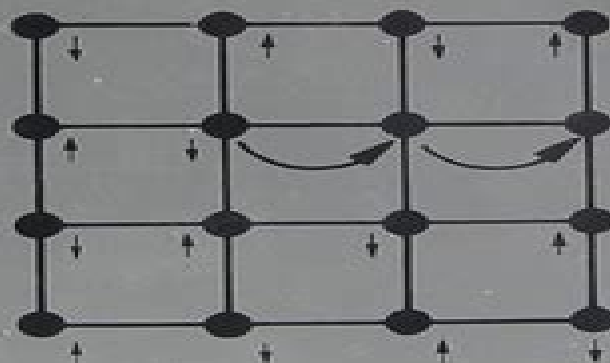


# MODERN PROBLEMS IN CONDENSED MATTER SCIENCES

General Editors:  
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VOLUME 32

## ELECTRONIC PHASE TRANSITIONS



Volume Editors:  
W. HANKE and Yu.V. KOPAEV

North-Holland

# Electronic Phase Transitions Modern Problems In Condensed Matter Sciences Vol 32

**JL Elias**



## **Electronic Phase Transitions Modern Problems In Condensed Matter Sciences Vol 32:**

*Electronic Phase Transitions* Yu.V. Kopaev, W. Hanke, 2012-12-02 *Electronic Phase Transitions* deals with topics which are presently at the forefront of scientific research in modern solid state theory Anderson localization which has fundamental implications in many areas of solid state physics as well as spin glasses with its influence on quite different research activities such as neural networks are two examples that are reviewed in this book The ab initio statistical mechanics of structural phase transitions is another prime example where the interplay and connection of two unrelated disciplines of solid state theory first principle electronic structure calculations and critical phenomena has given rise to impressive new insights Clearly there is more and more need for accurate stable numerical simulations of models of interacting electrons presently discussed with great vigor in connection with high T<sub>c</sub> superconductors where the superconducting transition is close to a magnetic transition i.e. an antiferromagnetic spin structure These topics and others are discussed and reviewed by leading experts in the field

**Introduction To Condensed Matter Physics, Volume 1** Duan Feng, Guojun Jin, 2005-07-04 This is volume 1 of two volume book that presents an excellent comprehensive exposition of the multi faceted subjects of modern condensed matter physics unified within an original and coherent conceptual framework Traditional subjects such as band theory and lattice dynamics are tightly organized in this framework while many new developments emerge spontaneously from it In this volume Basic concepts are emphasized usually they are intuitively introduced then more precisely formulated and compared with correlated concepts A plethora of new topics such as quasicrystals photonic crystals GMR TMR CMR high T<sub>c</sub> superconductors Bose Einstein condensation etc are presented with sharp physical insights Bond and band approaches are discussed in parallel breaking the barrier between physics and chemistry A highly accessible chapter is included on correlated electronic states rarely found in an introductory text Introductory chapters on tunneling mesoscopic phenomena and quantum confined nanostructures constitute a sound foundation for nanoscience and nanotechnology The text is profusely illustrated with about 500 figures

**Nonradiative Recombination in Semiconductors** V.N. Abakumov, V.I. Perel, I.N. Yassievich, 1991-07-26 In recent years great progress has been made in the understanding of recombination processes controlling the number of excess free carriers in semiconductors under nonequilibrium conditions As a result it is now possible to give a comprehensive theoretical description of these processes The authors have selected a number of experimental results which elucidate the underlying physical problems and enable a test of theoretical models The following topics are dealt with phenomenological theory of recombination theoretical models of shallow and deep localized states cascade model of carrier capture by impurity centers capture restricted by diffusion multiphonon processes Auger processes effect of electric field on capture and thermal emission of carriers

*50 Years Of Anderson Localization* Elihu Abrahams, 2010-06-25 In his groundbreaking paper Absence of diffusion in certain random lattices 1958 Philip W Anderson originated described and developed the physical principles underlying the phenomenon of

the localization of quantum objects due to disorder Anderson's 1977 Nobel Prize citation featured that paper which was fundamental for many subsequent developments in condensed matter physics and technical applications After more than a half century the subject continues to be of fundamental importance In particular in the last 25 years the phenomenon of localization has proved to be crucial for the understanding of the quantum Hall effect mesoscopic fluctuations in small conductors some aspects of quantum chaotic behavior and the localization and collective modes of electromagnetic and matter waves This unique and invaluable volume celebrates the five decades of the impact of Anderson localization on modern physics In addition to the historical perspective on its origin the volume provides a comprehensive description of the experimental and theoretical aspects of Anderson localization together with its application in various areas which include disordered metals and the metal insulator transition mesoscopic physics classical systems and light strongly correlated systems and mathematical models The volume is edited by E Abrahams who has been a contributor in the field of localization A distinguished group of experts each of whom has left his mark on the developments of this fascinating theory contribute their personal insights in this volume They are A Amir Weizmann Institute of Science P W Anderson Princeton University G Bergmann University of Southern California M B ttiker University of Geneva K Byczuk University of Warsaw University of Augsburg J Cardy University of Oxford S Chakravarty University of California Los Angeles V Dobrosavljevi Florida State University R C Dynes University of California San Diego K B Efetov Ruhr University Bochum F Evers Karlsruhe Institute of Technology A M Finkelstein Weizmann Institute of Science Texas A M University A Genack Queens College CUNY N Giordano Purdue University I V Gornyi Karlsruhe Institute of Technology W Hofstetter Goethe University Frankfurt Y Imry Weizmann Institute of Science B Kramer Jacobs University Bremen S V Kravchenko Northeastern University A MacKinnon Imperial College London A D Mirlin Karlsruhe Institute of Technology M Moskalets NTU Kharkiv Polytechnic Institute T Ohtsuki Sophia University P M Ostrovsky Karlsruhe Institute of Technology A M M Pruisken University of Amsterdam T V Ramakrishnan Indian Institute of Science M P Sarachik City College CUNY K Slevin Osaka University T Spencer Institute for Advanced Study Princeton D J Thouless University of Washington D Vollhardt University of Augsburg J Wang Queens College CUNY F J Wegner Ruprecht Karls University and P W lfe Karlsruhe Institute of Technology

*Quantum Tunnelling in Condensed Media* Yu. Kagan, A.J. Leggett, 2012-12-02 The essays in this book deal with of the problem of quantum tunnelling and related behavior of a microscopic or macroscopic system which interacts strongly with an environment this being some form of condensed matter The system in question need not be physically distinct from its environment but could for example be one particular degree of freedom on which attention is focussed as in the case of the Josephson junction studied in several of the papers This general problem has been studied in many hundreds if not thousands of articles in the literature in contexts as diverse as biophysics and quantum cosmology The editors have grouped together papers which are representative of the main trends in this area in the last fifteen years or so and sufficiently related in general spirit and

terminology that common themes can be discerned The contributions are primarily theoretical but the comparison with experiment is discussed wherever possible     Nanodevices for Photonics and Electronics Paolo Bettotti,2015-12-23 Photonics and electronics are endlessly converging into a single technology by exploiting the possibilities created by nanostructuring of materials and devices It is expected that next generation optoelectronic devices will show great improvements in terms of performance flexibility and energy consumption the main limits of nanoelectronics will

*Spectroscopy of Nonequilibrium Electrons and Phonons* C.V. Shank,B.P. Zakharchenya,2012-12-02 The physics of nonequilibrium electrons and phonons in semiconductors is an important branch of fundamental physics that has many practical applications especially in the development of ultrafast and ultrasmall semiconductor devices This volume is devoted to different trends in the field which are presently at the forefront of research Special attention is paid to the ultrafast relaxation processes in bulk semiconductors and two dimensional semiconductor structures and to their study by different spectroscopic methods both pulsed and steady state The evolution of energy and space distribution of nonequilibrium electrons and the relaxation kinetics of hot carriers and phonons are considered under various conditions such as temperature doping and pumping intensity by leading experts in the field     *Quantum Monte Carlo Methods* James Gubernatis,Naoki Kawashima,Philipp Werner,2016-06-02 The first textbook to provide a pedagogical examination of the major algorithms used in quantum Monte Carlo simulations     *Semiconductor Optics 2* Heinz Kalt,Claus F. Klingshirn,2024-03-16 This book provides an introduction to and an overview of the multifaceted area of dynamics and nonlinearities related to optical excitations in semiconductors It is a revised and significantly extended edition of the well established book by C Klingshirn split into two volumes and restructured to make it more concise Inserts on important experimental techniques reference to topical research and novel materials as well as consideration of photonic applications support research oriented teaching and learning This book reviews nonlinear optical properties and many body phenomena evoked by high densities of quasi particles in semiconductors Coherent dynamics and relaxation of optical excitations carriers excitons electron hole plasmas etc as well as condensation phenomena are elucidated in these materials A broad overview is provided of seminal research results augmented by detailed descriptions of the relevant experimental techniques e g ultrafast spectroscopy four wave mixing and the Hanbury Brown and Twiss experiment Offering a comprehensive introduction to hot topics in current research polariton condensates valley coherence and single photons to name a few it also discusses applications of the described physical concepts in topical areas such as quantum information photonics spintronics and optoelectronics Covering subjects ranging from physics to materials science and optoelectronics the book provides a lively and comprehensive introduction to semiconductor optics beyond the linear regime With many problems chapter introductions schematic depictions of physical phenomena as well as boxed inserts and a detailed index it is suitable for use in graduate courses in physics and neighboring sciences like material science and optical communication It is also a

valuable reference resource for doctoral and advanced researchers

**Nonlinear Spectroscopy of Solids** Baldassare di Bartolo, 2013-11-21 This report presents an account of the course Nonlinear Spectroscopy of Solids Advances and Applications held in Erice Italy from June 16 to 30 1993 This meeting was organized by the International School of Atomic and Molecular Spectroscopy of the Ettore Majorana Centre for Scientific Culture The purpose of this course was to present and discuss physical models mathematical formalisms experimental techniques and applications relevant to the subject of nonlinear spectroscopy of solid state materials The universal availability and application of lasers in spectroscopy has led to the widespread observation of nonlinear effects in the spectroscopy of materials Nonlinear spectroscopy encompasses many physical phenomena which have their origin in the monochromaticity spectral brightness coherence power density and tunability of laser sources Conventional spectroscopy assumes a linear dependence between the applied electromagnetic field and the induced polarization of atoms and molecules The validity of this assumption rests on the fact that even the most powerful conventional sources of light produce a light intensity which is not strong enough to equalize the rate of stimulated emission and that of the experimentally observed decay A different situation may arise when laser light sources are used particularly pulsed lasers The use of such light sources can make the probability of induced emission comparable to or even greater than the probability of the observed decay in such cases the nonlinearity of the response of the system is revealed by the experimental data and new properties not detectable by conventional spectroscopy will emerge

**Physics, Uspekhi**, 2006

Aslib Book Guide, 1992

**Modern Theories of Many-Particle Systems in Condensed Matter Physics** Daniel C. Cabra, Andreas Honecker, Pierre Pujol, 2012-01-05 Condensed matter systems where interactions are strong are inherently difficult to analyze theoretically The situation is particularly interesting in low dimensional systems where quantum fluctuations play a crucial role Here the development of non perturbative methods and the study of integrable field theory have facilitated the understanding of the behavior of many quasi one and two dimensional strongly correlated systems In view of the same rapid development that has taken place for both experimental and numerical techniques as well as the emergence of novel testing grounds such as cold atoms or graphene the current understanding of strongly correlated condensed matter systems differs quite considerably from standard textbook presentations The present volume of lecture notes aims to fill this gap in the literature by providing a collection of authoritative tutorial reviews covering such topics as quantum phase transitions of antiferromagnets and cuprate based high temperature superconductors electronic liquid crystal phases graphene physics dynamical mean field theory applied to strongly correlated systems transport through quantum dots quantum information perspectives on many body physics frustrated magnetism statistical mechanics of classical and quantum computational complexity and integrable methods in statistical field theory As both graduate level text and authoritative reference on this topic this book will benefit newcomers and more experienced researchers in this field alike

Handbook of Liquid Crystals, 8 Volume Set John W. Goodby, Peter J. Collings, Takashi Kato, Carsten Tschierske, Helen

Gleeson, Peter Raynes, Volkmar Vill, 2014-04-14 Much more than a slight revision this second edition of the successful Handbook of Liquid Crystals is completely restructured and streamlined with updated as well as completely new topics 100% more content and a new team of editors and authors As such it fills the gap for a definitive single source reference for all those working in the field of organized fluids and will set the standard for the next decade The Handbook's new structure facilitates navigation and combines the presentation of the content by topic and by liquid crystal type A fundamentals volume sets the stage for an understanding of the liquid crystal state of matter while individual volumes cover the main types and forms with a final volume bringing together the diverse liquid crystal phases through their applications This unrivaled all embracing coverage represents the undiluted knowledge on liquid crystals making the Handbook a must have wherever liquid crystals are investigated produced or used and in institutions where their science and technology is taught Also available electronically on Wiley Online Library [www.wileyonlinelibrary.com/ref/olc](http://www.wileyonlinelibrary.com/ref/olc) Volume 1 Fundamentals of Liquid Crystals Volume 2 Physical Properties and Phase Behavior of Liquid Crystals Volume 3 Nematic and Chiral Nematic Liquid Crystals Volume 4 Smectic and Columnar Liquid Crystals Volume 5 Non Conventional Liquid Crystals Volume 6 Nanostructured and Amphiphilic Liquid Crystals Volume 7 Supramolecular and Polymeric Liquid Crystals Volume 8 Applications of Liquid Crystals

*Semiconductor Optics* Claus F. Klingshirn, 2012-07-06 The updated and enlarged new edition of this book provides an introduction to and an overview of semiconductor optics from the IR through the visible to the UV It includes coverage of linear and nonlinear optical properties dynamics magneto and electrooptics high excitation effects some applications experimental techniques and group theory The mathematics is kept as elementary as possible The subjects covered extend from physics to materials science and optoelectronics New or updated chapters add coverage of current topics while the chapters on bulk materials have been revised and updated

[International Tables for Crystallography, Volume D](#) A. Authier, 2014-11-17 International Tables for Crystallography is the definitive resource and reference work for crystallography and structural science Each of the volumes in the series contains articles and tables of data relevant to crystallographic research and to applications of crystallographic methods in all sciences concerned with the structure and properties of materials Emphasis is given to symmetry diffraction methods and techniques of crystal structure determination and the physical and chemical properties of crystals The data are accompanied by discussions of theory practical explanations and examples all of which are useful for teaching Volume D is concerned with the influence of symmetry on the physical and tensor properties of crystals and on their structural phase transitions This role is very important in many different disciplines of the science of materials such as crystallography elasticity solid state physics magnetism optics ferroelectricity and mineralogy and Volume D deals with all these aspects in a unified way The volume is divided into 3 parts Part 1 Introduces the mathematical properties of tensors and group representations and gives their independent components for each of the crystallographic groups Part 2 Devoted to the symmetry aspects of excitations in

reciprocal space phonons electrons Raman scattering and Brillouin scattering Part 3 Deals with the symmetry aspects of structural phase transitions and twinning A prominent feature is the joint description of twinning and domain structures which are usually presented in completely separate ways in handbooks of physics and mineralogy Supplementary software is provided to support and enhance Chapters 1 1 and 1 2 for the determination of irreducible group representations and tensor components and Part 3 on structural phase transitions New to this edition This second edition of Volume D features a new chapter Chapter 1 11 on the tensorial properties of local crystal susceptibilities by V E Dmitrienko A Kirfel and E N Ovchinnikova This chapter describes the symmetry and physical phenomena that allow and restrict forbidden reflections excited at radiation energies close to the X ray absorption edges of atoms Reflections caused by magnetic scattering are also discussed In Part 1 Chapters 1 1 an introduction to the properties of tensors 1 2 on representations of crystallographic groups 1 3 elastic properties 1 5 magnetic properties and 1 10 on tensors in quasiperiodic structures have been revised In particular Chapter 1 5 features a new section on multiferroics by M Kenzelmann Chapter 3 3 on twinning of crystals has been updated and new sections on the effect of twinning in reciprocal space and on the relations between twinning and domain structure have been added Chapter 3 4 on domain structures has also been updated More information on the series can be found at <http://it.iucr.org> *Journal of Experimental and Theoretical Physics*, 2001 **Nuclear Science Abstracts**, 1975-08

**Coherence in Spectroscopy and Modern Physics** F.T. Arecchi, R. Bonifacio, 2012-12-06 This volume contains the lectures and seminars presented at the NATO Advanced Study Institute on Coherence in Spectroscopy and Modern Physics the seventh course of the International School of Quantum Electronics affiliated with the Ettore Majorana Centre for Scientific Culture Erice Sicily The Institute was held at Villa LePianore Lucca Versilia Italy July 17 30 1977 The International School of Quantum Electronics was started in 1970 with the aim of providing instruction for young researchers and advanced students already engaged in the area of quantum electronics or wishing to switch to this area from a different background From the outset the School has been under the direction of Prof F T Arecchi then at the University of Pavia now at the University of Florence and Dr D Roess of Siemens Munich Each year the Directors choose a subject of particular interest alternating fundamental topics with technological ones and ask colleagues specifically competent in a given area to take the scientific responsibility for that course *Correlation Functions and Quasiparticle Interactions in Condensed Matter* J.W. Halley, 2012-12-06 This volume contains the proceedings of a NATO Advanced Study Institute devoted to the study of dynamical correlation functions of the form  $\langle I J e^{i \int_0^t A O B O A t B t dt} \rangle$  where A and B are physical operations in the Heisenberg representation and Tr e



## **Electronic Phase Transitions Modern Problems In Condensed Matter Sciences Vol 32** Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Electronic Phase Transitions Modern Problems In Condensed Matter Sciences Vol 32**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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