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Core-Level Spectroscopy in Condensed Systems



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Core Level Spectroscopy In Condensed Systems

Kurt Binder, Dieter W. Heermann



Core Level Spectroscopy In Condensed Systems:

Core Level Spectroscopy of Solids Frank de Groot,Akio Kotani,2008-03-10 Core level spectroscopy has become a powerful tool in the study of electronic states in solids From fundamental aspects to the most recent developments Core Level Spectroscopy of Solids presents the theoretical calculations experimental data and underlying physics of x ray photoemission spectroscopy XPS x ray absorption spectroscopy XAS x

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Progress in core-Level spectroscopy of condensed systems Shik Shin,2004

Introduction to Solid-State Theory Otfried Madelung,1978 This textbook for graduate students of physics and materials science also provides the theoretical background needed by physicists carrying out research in pure solid state physics and its applications to electrical engineering

Magnetism of Surfaces, Interfaces, and Nanoscale Materials Robert E. Camley,Zbigniew Celinski,Robert L. Stamps,2015-10-27 In the past 30 years magnetic research has been dominated by the question of how surfaces and interfaces influence the magnetic and transport properties of nanostructures thin films and multilayers The research has been particularly important in the magnetic recording industry where the giant magnetoresistance effect led to a new generation of storage devices including hand held memories such as those found in the ipod More recently transfer of spin angular momentum across interfaces has opened a new field for high frequency applications This book gives a comprehensive view of research at the forefront of these fields The frontier is expanding through dynamic exchange between theory and experiment Contributions have been chosen to reflect this giving the reader a unified overview of the topic Addresses both theory and experiment that are vital for gaining an essential understanding of topics at the interface between magnetism and materials science Chapters written by experts provide great insights into complex material Discusses fundamental background material and state of the art applications serving as an indispensable guide for students and professionals at all levels of expertise Stresses interdisciplinary aspects of the field including physics

chemistry nanocharacterization and materials science Combines basic materials with applications thus widening the scope of the book and its readership

Recent Advances In Magnetism Of Transition Metal Compounds: Festschrift In Honour Of Professor K Motizuki Akio Kotani, Naoshi Suzuki, 1993-03-18 This book is a Festschrift in honour of Professor Kazuko Motizuki on the occasion of her retirement from Osaka University She has been active in a variety of branches of solid state physics and in particular has made an important contribution to the theory of magnetism The book reviews recent advances in magnetism of transition metal compounds both for itinerant electron systems and localized spin systems For the former systems band calculational methods correlation effects and theoretical aspects of photoemission spectroscopy are reviewed generally and then recent progress in the theoretical and experimental understanding of magnetic properties of various kinds of intermetallic compounds and intercalation compounds of transition metal dichalcogenides are reviewed in detail For the latter systems attention is focused on quantum effects frustration and competing interaction in low dimensional systems Main subjects treated in the book are Haldane gap systems singlet ground state systems triangular spin systems and quantum spin chains with competing interactions

Photoelectron Spectroscopy Stefan Hüfner, 1996-05-15 Photoelectron Spectroscopy presents an up to date introduction to the field by comprehensively treating the electronic structures of atoms molecules solids and surfaces Brief descriptions are given of inverse photoemission spin polarized photoemission and photoelectron diffraction Experimental aspects are considered throughout the book and the results are carefully interpreted in terms of the theory A wealth of measured data is presented in tabulator form for easy use by experimentalists

Optics of Semiconductors and Their Nanostructures Heinz Kalt, Michael Hetterich, 2004-07-13 In recent years the field of semiconductor optics has been pushed to several extremes The size of semiconductor structures has shrunk to dimensions of a few nanometers the semiconductor light interaction is studied on timescales as fast as a few femtoseconds and transport properties on a length scale far below the wavelength of light have been revealed These advances were driven by rapid improvements in both semiconductor and optical technologies and were further facilitated by progress in the theoretical description of optical excitations in semiconductors This book written by leading experts in the field provides an up to date introduction to the optics of semiconductors and their nanostructures so as to help the reader understand these exciting new developments It also discusses recently established applications such as blue light emitters as well as the quest for future applications in areas such as spintronics quantum information processing and third generation solar cells

The Science Reports of the Tōhoku University, 1989 *Monte Carlo Simulation in Statistical Physics* Kurt Binder, Dieter W. Heermann, 2013-03-14 Monte Carlo Simulation in Statistical Physics deals with the computer simulation of many body systems in condensed matter physics and related fields of physics chemistry and beyond to traffic flows stock market fluctuations etc Using random numbers generated by a computer probability distributions are calculated allowing the estimation of the thermodynamic properties of various systems This book describes the theoretical background to several

variants of these Monte Carlo methods and gives a systematic presentation from which newcomers can learn to perform such simulations and to analyze their results This fourth edition has been updated and a new chapter on Monte Carlo simulation of quantum mechanical problems has been added To help students in their work a special web server has been installed to host programs and discussion groups <http://www.ccp.tphys.uni-heidelberg.de> Prof Binder was the winner of the Berni J Alder CECAM Award for Computational Physics 2001 *Physics Briefs*, 1991 Positron Annihilation in Semiconductors Reinhard

Krause-Rehberg, Hartmut S. Leipner, 1999-01-21 This comprehensive book reports on recent investigations of lattice imperfections in semiconductors by means of positron annihilation It reviews positron techniques and describes the application of these techniques to various kinds of defects such as vacancies impurity vacancy complexes and dislocations

Physics and Chemistry of Transition Metal Oxides Hidetoshi Fukuyama, Naoto Nagaosa, 2012-12-06 Physics and Chemistry of Transition Metal Oxides includes both theoretical and experimental approaches to the variety of phenomena found in the transition metal oxides including high temperature superconductivity colossal magnetoresistance and metal insulator transition These are the central issues in materials science and condensed matter physics chemistry and readers can obtain up to date information on what is happening in this field of research *Magneto-Optics* Satoru Sugano, Norimichi Kojima, 2013-03-09 This book is designed to provide graduate students and research beginners with an introductory review of recent developments in the field of microscopic magneto optics The field contains the most important subjects in solid state physics chemical physics and electronic engineering Microscopic studies of magneto optics stem from those of ligand field spectra of paramagnetic ions in solids and liquids which are also well known to have brought developments in material research for solid state lasers As the introductory chapter of this monograph Chap 1 deals with the fundamental properties of ligand field spectra in useful solids Chapter 2 is on elementary excitations such as magnons and excitons in magnetically ordered crystals a central aspect of recent developments in microscopic magneto optics Chapter 3 concerns Raman spectroscopy accompanying magnetic excitations of high energies in strongly correlated electron systems which are related to high T_c superconductors Chapter 4 is on recent developments in the studies of non linear optical effects citing experiments for Cr²⁺ and describing a microscopic theory for its second harmonic generation In Chap 5 after introducing a phenomenological theory of the Faraday and Kerr effects we present a microscopic theory based on the ligand field theory and discuss the future developments Chapter 6 concerns diluted magnetic semiconductors discussing formation magnetic properties and quantum confinement effects of magnetic polarons Chapter 7 is also on diluted magnetic semiconductors emphasizing the importance in growing new magnetic semiconductors and in studying their remarkable magneto optical properties **Space-time Organization in Macromolecular Fluids** Fumihiko Tanaka, Masao Doi, Takao Ôta, 1989 Papers

of the November 1988 meeting in Hakone Japan present a cross section of the current research in self organizing macromolecular fluids The topics include microphase separation of block copolymers chemical and physical gelation polymer

adsorption and polymers in random media and in external fields The emphasis is on theoretical aspects No index Annotation copyrighted by Book News Inc Portland OR *Physics and Technology of Submicron Structures* Österreichische Physikalische Gesellschaft,1988-10-12 This volume presents a discussion of the latest results in the physics of low dimensional structures At the winter school major breakthroughs were reported and some of the excitement of the participants is reflected in the contributions The topics treated range from the fabrication of microstructures and the physical background of future semiconductor devices to vertical transport in nanostructures universal conductance fluctuations and the transition from two dimensional to one dimensional conduction in semiconductor structures

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