

Topics in Current Physics

Structure and Dynamics of Surfaces II

Phenomena, Models, and Methods

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Structural Phase Transitions II K. Alex Müller,Harry Thomas,2013-03-14 Structural Phase Transitions II like its predecessor Topics in Current Physics Vol 23 presents selected methods and recent advances in the experimental investigation of phase transitions in solids The two chapters in this volume deal with electron paramagnetic resonance EPR and with nuclear magnetic and nuclear quadrupole resonance NMR NQR Both techniques are particularly sensitive to local properties The chapter on EPR concentrates largely on the investigation of static properties including mean field behaviour critical and multicritical phenomena whilst NMR is shown to be a powerful tool for studying nonlinear dynamics incommensurate transitions and disordered systems This book will serve as an excellent introduction to the methodology and applications of EPR and NMR NQR for all those wishing to become acquainted with these important tools for studying structural phase transitions

Handbook of Crystal Growth Tatau Nishinaga,2014-11-04 Volume IAHandbook of Crystal Growth 2nd Edition Fundamentals Thermodynamics and Kinetics Volume IA addresses the present status of crystal growth science and provides scientific tools for the following volumes Volume II Bulk Crystal Growth and III Thin Film Growth and Epitaxy Volume IA highlights thermodynamics and kinetics After historical introduction of the crystal

growth phase equilibria defect thermodynamics stoichiometry and shape of crystal and structure of melt are described Then the most fundamental and basic aspects of crystal growth are presented along with the theories of nucleation and growth kinetics In addition the simulations of crystal growth by Monte Carlo ab initio based approach and colloidal assembly are thoroughly investigated Volume IB Handbook of Crystal Growth 2nd Edition Fundamentals Transport and Stability Volume IB discusses pattern formation a typical problem in crystal growth In addition an introduction to morphological stability is given and the phase field model is explained with comparison to experiments The field of nanocrystal growth is rapidly expanding and here the growth from vapor is presented as an example For the advancement of life science the crystal growth of protein and other biological molecules is indispensable and biological crystallization in nature gives many hints for their crystal growth Another subject discussed is pharmaceutical crystal growth To understand the crystal growth in situ observation is extremely powerful The observation techniques are demonstrated Volume IA Explores phase equilibria defect thermodynamics of Si stoichiometry of oxides and atomistic structure of melt and alloys Explains basic ideas to understand crystal growth equilibrium shape of crystal rough smooth transition of step and surface nucleation and growth mechanisms Focuses on simulation of crystal growth by classical Monte Carlo ab initio based quantum mechanical approach kinetic Monte Carlo and phase field model Controlled colloidal assembly is presented as an experimental model for crystal growth Volume IIB Describes morphological stability theory and phase field model and comparison to experiments of dendritic growth Presents nanocrystal growth in vapor as well as protein crystal growth and biological crystallization Interprets mass production of pharmaceutical crystals to be understood as ordinary crystal growth and explains crystallization of chiral molecules Demonstrates in situ observation of crystal growth in vapor solution and melt on the ground and in space

Photoacoustic, Photothermal and Photochemical Processes in Gases Peter Hess, 2012-12-06 Gas phase photoacoustics are treated comprehensively for the first time in this book Review articles by leading scientists in the respective research areas introduce their fields review present knowledge and conclude with the latest developments and future prospects Topics covered include the theory of photoacoustics in the frequency and time domains acoustic resonator models a great variety of experimental setups and techniques studies of spectroscopy and fundamental kinetic processes such as energy transfer and chemical reactions and applications such as air and exhaust monitoring and trace gas detection in biology and agriculture The book will interest newcomers to photoacoustics since it gives an overview of the important directions of current research and detailed descriptions of experimental methods It will also be a valuable source of information for those already involved in photoacoustic research due to its clear presentation of theory and experimental results All relevant literature references in this rapidly expanding field of laser applications are included [Applications of the Monte Carlo Method in Statistical Physics](#) Kurt Binder, 2013-06-29 Deals with the computer simulation of complex physical systems encountered in condensed matter physics and statistical mechanics as well as in related fields such as

metallurgy polymer research lattice gauge theory and quantum mechanics Springer Handbook of Surface Science Mario Rocca, Talat Rahman, Luca Vattuone, 2021-01-14 This handbook delivers an up to date comprehensive and authoritative coverage of the broad field of surface science encompassing a range of important materials such as metals, semiconductors, insulators, ultrathin films and supported nanoobjects. Over 100 experts from all branches of experiment and theory review in 39 chapters all major aspects of solid state surfaces from basic principles to applications including the latest ground breaking research results. Beginning with the fundamental background of kinetics and thermodynamics at surfaces, the handbook leads the reader through the basics of crystallographic structures and electronic properties to the advanced topics at the forefront of current research. These include but are not limited to novel applications in nanoelectronics, nanomechanical devices, plasmonics, carbon films, catalysis and biology. The handbook is an ideal reference guide and instructional aid for a wide range of physicists, chemists, materials scientists and engineers active throughout academic and industrial research.

Semiconductor Interfaces, Microstructures and Devices Zhe Chuan Feng, 1993-01-01 A semiconductor interface is the contact between the semiconductor itself and a metal. The interface is a site of change and it is imperative to ensure that the semiconducting material is sealed at this point to maintain its reliability. This book examines various aspects of interfaces showing how they can affect microstructures and devices such as infrared photodetectors as used in night sights and blue diode lasers. It presents various techniques for examining different types of semiconductor material and suggests future potential commercial applications for different semiconductor devices. Written by experts in their fields and focusing on metallic semiconductors, Cadmium Telluride and related compounds, this comprehensive overview of recent developments is an essential reference for those working in the semiconductor industry and provides a concise and comprehensive introduction to those new to the field. Surface X-Ray and Neutron Scattering Hartmut Zabel, Ian K. Robinson, 2012-12-06 Owing to the increased availability of synchrotron sources, surface X ray scattering is a rapidly expanding technique with important applications to surface structures and surface phase transitions, roughening of surfaces and interfaces and the structure of liquid surfaces including polymers, liquid crystals and organic films. Surface studies with neutrons on the other hand provide important information on liquid and magnetic films. The contributions to this volume, written by active researchers in the field, provide an up to date overview of the highly sophisticated techniques and their applications.

Persistent Spectral Hole-Burning: Science and Applications William E. Moerner, 2012-12-06 Almost fifteen years have now elapsed since the first observations of persistent spectral hole burning in inhomogeneously broadened absorption lines in solids. The fact that the spectral shape of an inhomogeneously broadened line can be locally modified for long periods of time has led to a large number of investigations of low temperature photophysics and photochemistry that would not have been possible otherwise. Using hole burning, important information has been obtained about a variety of interactions including excited state dephasing processes, host-guest dynamics, proton tunnelling, low frequency excitation in amorphous

hosts relaxation mechanisms for vibrational modes photochemical mechanisms at liquid helium temperatures and external field perturbations At the same time the possibility that persistent spectral holes might be used to store digital information has led to the study of materials and configurations for frequency domain optical storage and related possible applications This is the first full length book on persistent spectral hole burning The goal is to provide a broadly based survey of the scientific principles and applications of persistent spectral hole burning Since the topic is quite interdisciplinary the book is intended for researchers graduate students and advanced undergraduates in the fields of chemical physics solid state physics laser spectroscopy solid state photochemistry and high performance optical storage and optical processing

Science and Technology of Crystal Growth J.P. van der Eerden,O.S.L. Bruinsma,2012-12-06 1 The ninth International Summer School on Crystal Growth ISSCG IX A complete theory of crystal growth establishes the full dependence of crystal size shape and structure on external parameters like temperature pressure composition purity growth rate and stirring of the mother phase implicitly establishing how the corresponding fields vary in space and time Such a theory does not exist however Therefore equipment to grow crystals is developed on the basis of partial knowledge Skill experience and creativity still are of central importance for the success of a crystal growth system In this book we collected contributions from the teachers of the ninth International Summer School on Crystal Growth ISSCG IX held 11-16 June 1995 at Papendal the national sports centre of the Netherlands These contributions were used during the lectures The authors have tried to present their work in such a way that only basic physical knowledge is required to understand the papers The book can be used as an introduction to various important sub disciplines of the science and technology of crystal growth Since however the information content considerably exceeds a lecture note level and touches the present limits of understanding it is an up to date handbook as well

Metallic Alloys: Experimental and Theoretical Perspectives J.S. Faulkner,R.G. Jordan,1994-02-28 The development of new materials is recognized as one of the major elements in the overall technological evolution that must go on in order to sustain and even improve the quality of life for citizens of all nations There are many components to this development but one is to achieve a better understanding of the properties of materials using the most sophisticated scientific tools that are available As condensed matter physicists and materials scientists work toward this goal they find that it is useful to divide their efforts and focus on specific areas because certain analytical and theoretical techniques will be more useful for the study of one class of materials than another One such area is the study of metals and metallic alloys which are used in the manufacture of products as diverse as automobiles and space stations Progress in this area has been very rapid in recent years and the new developments come from many different countries For these reasons the Advanced Research Workshop Programme in the NATO Scientific Affairs Division has seen fit to sponsor several meetings to bring together the researchers and students working in this field from the NATO countries and elsewhere There have been a series of NATO ASI s that have dealt with the results of research on the electronic structure of materials and the

properties of metals alloys and interfaces They are Electrons in finite and infinite structures P Phariseau and L Suk-Joong L. Kang,2004-11-27 Sintering is the process of forming materials and components from a powder under the action of thermal energy It is a key materials science subject most ceramic materials and many specialist metal powder products for use in key industries such as electronics automotive and aerospace are formed this way Written by one of the leading experts in the field this book offers an unrivalled introduction to sintering and sintering processes for students of materials science and engineering and practicing engineers in industry The book is unique in providing a complete grounding in the principles of sintering and equal coverage of the three key sintering processes densification grain growth and microstructure Students and professional engineers alike will be attracted by the emphasis on developing a detailed understanding of the theory and practical processes of sintering the balanced coverage of ceramic and metal sintering and the accompanying examination questions with selected solutions Delivering unrivalled depth of coverage on the basis of sintering science including thermodynamics and polycrystalline microstructure Unique in its balanced coverage of the three key sintering elements densification grain growth and microstructure A key reference for students and engineers in materials science and engineering accompanied by examination questions and selected solutions Preparation of Solid Catalysts Gerhard Ertl,Helmut Knözinger,Jens Weitkamp,1999-11-12 Solid catalysts play a fundamental role in all areas between basic research and industrial applications This book offers a large amount of information about the preparation of solid catalysts All types of solid catalysts and all important aspects of their preparation are discussed The highly topical contributions are written by leading experts in disciplines ranging from solid state interface and solution chemistry to industrial engineering The straightforward presentation of the material and the comprehensive coverage make this book an essential and indispensable tool for every scientist and engineer working with solid catalysts Acta Physica Polonica ,1988 Section A includes general physics solid state physics applied physics **Structural Phase Transitions** Karl A. Müller,Harry Thomas,1981 X-ray and Neutron Scattering from Surfaces and Thin Films M. Bienfait,J. M. Gay,1989 Faraday Discussions of the Chemical Society ,1993 **Metallic Magnetism** I. A. Campbell,1987

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