

The Physics of Structural Phase Transitions



MINORU FUJIMOTO

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K Motizuki



Physics Of Structural Phase Transitions:

The Physics of Structural Phase Transitions Minoru Fujimoto, 2013-04-09 Phase transitions in which crystalline solids undergo structural changes present an interesting problem in the interplay between the crystal structure and the ordering process This text intended for readers with some prior knowledge of condensed matter physics emphasizes the basic physics behind such spontaneous structural changes in crystals Starting with the relevant thermodynamic principles the book discusses the nature of order variables and their collective motion in a crystal lattice in a structural phase transition a singularity in such a collective mode is responsible for the lattice instability as revealed by soft phonons This mechanism is analogous to the interplay of a charge density wave and a periodically deformed lattice in low dimensional conductors The text also describes experimental methods for modulated crystal structures and gives examples of structural changes in representative systems The book is divided into two parts The first theoretical part includes such topics as the Landau theory of phase transitions statistics correlations and the mean field approximation pseudospins and their collective modes soft lattice modes and pseudospin condensates lattice imperfections and their role in the phase transitions of real crystals The second part discusses experimental studies of modulated crystals using x ray diffraction neutron inelastic scattering light scattering dielectric measurements and magnetic resonance spectroscopy While the presence of modulated structures in the critical region was not particularly suggested in the published

The Physics of Structural Phase Transitions Minoru Fujimoto, 2008-11-01 Phase transitions in which crystalline solids undergo structural changes present an interesting problem in the interplay between the crystal structure and the ordering process This text intended for readers with some prior knowledge of condensed matter physics emphasizes the basic physics behind such spontaneous structural changes in crystals Starting with the relevant thermodynamic principles the book discusses the nature of order variables and their collective motion in a crystal lattice in a structural phase transition a singularity in such a collective mode is responsible for the lattice instability as revealed by soft phonons This mechanism is analogous to the interplay of a charge density wave and a periodically deformed lattice in low dimensional conductors The text also describes experimental methods for modulated crystal structures and gives examples of structural changes in representative systems The book is divided into two parts The first theoretical part includes such topics as the Landau theory of phase transitions statistics correlations and the mean field approximation pseudospins and their collective modes soft lattice modes and pseudospin condensates lattice imperfections and their role in the phase transitions of real crystals The second part discusses experimental studies of modulated crystals using x ray diffraction neutron inelastic scattering light scattering dielectric measurements and magnetic resonance spectroscopy

Structural Phase Transitions Bruno Dorner, 1981 *Structural Phase Transitions* A. D. Bruce, R. A. Cowley, 1981

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

Structural Phase Transitions in Layered Transition Metal Compounds K.

Motizuki,1986-10-31 The structural phase transition is one of the most fundamental problems in solid state physics Layered transition metal dichalcogenides provide us with a most exciting area for the study of structural phase transitions that are associated with the charge density wave CDW A large variety of structural phase transitions such as commensurate and incommensurate transitions and the physical proper ties related to the formation of a CDW have been an object of intense study made for many years by methods employing modern microscopic techniques Rather recently efforts have been devoted to the theoretical understanding of these experimental results Thus McMillan for example has developed an elegant phenomenological theory on the basis of the Landau free energy expansion An extension of McMillan s theory has provided a successful understanding of the successive phase transitions observed in the IT and 2H compounds In addition a microscopic theory of lattice instability lattice dynamics and lattice distortion in the CDW state of the transition metal dichalcogenides has been developed based on their electronic structures As a result the driving force of the CDW formation in the IT and 2H compounds has become clear Furthermore the effect of lattice fluctuations on the CDW transition and on the anomalous behavior of various physical properties has been made clear microscopically

Structural Phase Transitions in Layered Transition Metal Compounds K Motizuki,1986-10-31

Structural Phase Transitions K. A. Müller,1981

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Structural Phase Transitions I K.A. Müller,H. Thomas,2012-12-06 With contributions by numerous experts

Structural Phase Transitions II K. Alex Müller,Harry Thomas,1990-12-20 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

Nonlinear Phenomena at Phase Transitions and Instabilities Tormod Riste, 2012-12-06 This NATO Advanced Study Institute held in Geilo between March 29th and April 9th 1981 was the sixth in a series devoted to the subject of phase transitions and instabilities The present institute was intended to provide a forum for discussion of the importance of nonlinear phenomena associated with instabilities in systems as seemingly disparate as ferroelectrics and rotating buckets of oil Ten years ago at the first Geilo school the report of a central peak in the fluctuation spectrum of SrTiO close to its 3 106 K structural phase transition demonstrated that the simple soft mode theory of such transitions was incomplete The missing ingredient was the essential nonlinearity of the system Participants at this year's Geilo school heard assessments of a decade of experimental and theoretical effort which has been expended to elucidate the nature of this nonlinearity The importance of ordered clusters and the walls which bound them was stressed in this context A specific type of wall the soliton was discussed by a number of speakers New experimental results which purport to demonstrate the existence of solitons in a one dimensional ferromagnet were presented A detailed discussion was given of the role of solitons in transport phenomena in driven multistable systems typified by a sine Gordon chain

The Physics of Phase Transitions Pierre Papon, Jacques Leblond, Paul H.E. Meijer, 2006-06-13 This book occupies an important place at the crossroads of several fields central to materials sciences The expanded second edition incorporates new developments in the states of matter physics and includes end of chapter problems and complete answers

Phase Transitions in Ferroelastic and Co-elastic Crystals E. K. Salje, 1993-04-22 This textbook describes the fundamental principles of structural phase transitions in materials in an easily understandable form suitable for both undergraduate and graduate students

Structural Phase Transitions in Layered Transition Metal Compounds K. Motizuki, 2012-12-06 The structural phase transition is one of the most fundamental problems in solid state physics Layered transition metal dichalcogenides provide us with a most exciting area for the study of structural phase transitions that are associated with the charge density wave CDW A large variety of structural phase transitions such as commensurate and incommensurate transitions and the physical properties related to the formation of a CDW have been an object of intense study made for many years by methods employing modern microscopic techniques Rather recently efforts have been devoted to the theoretical understanding of

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Solitons in Crystalline Processes Minoru Fujimoto,2017 Solitons in Crystalline Processes is an introduction to the statistical thermodynamics of phase transitions in crystallized solids This book is written as an introductory treatise with respect to the soliton concept from structural transitions where the crystal symmetry changes to magnets and superconductors describing the role of nonlinear excitations in detail Prov de l editor *Treatise on Geophysics* ,2015-04-17 Treatise on Geophysics Second Edition is a comprehensive and in depth study of the physics of the Earth beyond what any geophysics text has provided previously Thoroughly revised and updated it provides fundamental and state of the art discussion of all aspects of geophysics A highlight of the second edition is a new volume on Near Surface Geophysics that discusses the role of geophysics in the exploitation and conservation of natural resources and the assessment of degradation of natural systems by pollution Additional features include new material in the Planets and Moon Mantle Dynamics Core Dynamics Crustal and Lithosphere Dynamics Evolution of the Earth and Geodesy volumes New material is also presented on the uses of Earth gravity measurements This title is essential for professionals researchers professors and advanced undergraduate and graduate students in the fields of Geophysics and Earth system science Comprehensive and detailed coverage of all aspects of geophysics Fundamental and state of the art discussions of all research topics Integration of topics into a coherent whole **Structural Phase Transitions Data Base** A. M. Glazer,1992-01-01 *Phase Transitions and Crystal Symmetry* Yurii Aleksandrovich Izyumov,V.N. Syromyatnikov,2012-12-06 About half a century ago Landau formulated the central principles of the phe nomenological second order phase transition theory which is based on the idea of spontaneous symmetry breaking at phase transition By means of this ap proach it has been possible to treat phase transitions of different nature in altogether distinct systems from a unified viewpoint to embrace the aforemen tioned transitions by a unified body of mathematics and to show that in a certain sense physical systems in the vicinity of second order phase transitions exhibit universal behavior For several decades the Landau method has been extensively used to an alyze specific phase transitions in systems and has been providing a basis for interpreting experimental data on the behavior of physical characteristics near the phase transition including the behavior of these characteristics in systems subject to various external effects such as pressure electric and magnetic fields deformation etc The symmetry aspects of Landau s theory are perhaps

most effective in analyzing phase transitions in crystals because the relevant body of mathematics for this symmetry namely the crystal space group representation has been worked out in great detail Since particular phase transitions in crystals often call for a subtle symmetry analysis the Landau method has been continually refined and developed over the past ten or fifteen years

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