P. Brüesch

Phonons: Theory and Experiments III

Phenomena Related to Phonons



Ayao Okiji, Hideaki Kasai, Kenji Makoshi

Phonons: Theory and Experiments III Peter Brüesch, 2012-12-06 The first volume of this treatment Phonons Theory and Experiments I was devoted to the basic concepts of the physics of phonons and to a study of models for interatomic forces The second volume Phonons Theory and Experiments II contains a study of experimental techniques and the interpretation of experimental results In the present third volume we treat a number of phenomena which are directly related to phonons The aim of this book is to bridge the gap between theory and experi ment An attempt has been made to present the descriptive as well as the analytical aspects of the topics Although emphasis is placed on the role of phonons in the different topics most chapters also contain a general intro duction into the specific subject. The book is addressed to experimentalists and to theoreticians working in the vast field of dynamical properties of solids It will also prove useful to graduate students starting research in this or related fields. The choice of the topics treated was partly determined by the author's own activity in these areas This is particularly the case for the chapters dealing with phonons in one dimensional metals disordered systems super ionic conductors and certain newer aspects of ferroelectricity and melting I am very grateful to my colleagues J Bernasconi V T Hochli and 1 Phonons: Theory and Experiments III Peter Brüesch, 2012-07-04 The first volume of this treatment Phonons Theory and Experiments I was devoted to the basic concepts of the physics of phonons and to a study of models for interatomic forces The second volume Phonons Theory and Experiments II contains a study of experimental techniques and the interpretation of experimental results In the present third volume we treat a number of phenomena which are directly related to phonons The aim of this book is to bridge the gap between theory and experi ment An attempt has been made to present the descriptive as well as the analytical aspects of the topics Although emphasis is placed on the role of phonons in the different topics most chapters also contain a general intro duction into the specific subject The book is addressed to experimentalists and to theoreticians working in the vast field of dynamical properties of solids It will also prove useful to graduate students starting research in this or related fields. The choice of the topics treated was partly determined by the author's own activity in these areas This is particularly the case for the chapters dealing with phonons in one dimensional metals disordered systems super ionic conductors and certain newer aspects of ferroelectricity and melting I am very grateful to my colleagues J Bernasconi V T Hochli and 1 **Phonons: Theory and Experiments II** Peter Brüesch, 2012-12-06 The first part of this three volume treatment Phonons Theory and Exper iments I has been devoted to the basic concepts of the physics of phonons and to a study of models of interatomic forces. The present second volume Phonons Theory and Experiments II contains a thorough study of experimental techniques and the interpretation of experimental results In a third volume we shall treat a number of phenomena which are directly related to lattice dynamics The aim of this treatment is to bridge the gap between theory and experiment Both experimental aspects and theoretical concepts necessary for an interpretation of experimental data are discussed An attempt has been made to present the descriptive as

well as the analytical aspects of the top ics Although emphasis is placed on the experimental and theoretical study of the dynamics of atoms in solids most chapters also contain a general in troduction to the specific subject The text is addressed to experimentalists and theoreticians working in the vast field of dynamical properties of solids It will also prove useful to graduate students starting research in this or related fields The choice of the topics treated was partly determined by the author s own activity in these areas This is particularly the case for the chapters dealing with infrared Raman and inelastic neutron spectroscopy as well as for some newer developments such as the optical spectroscopy of thin films and adsorbates

Phonons: Theory and Experiments III Peter Brüesch, 1987-04-30 The first volume of this treatment Phonons Theory and Experiments I was devoted to the basic concepts of the physics of phonons and to a study of models for interatomic forces The second volume Phonons Theory and Experiments II contains a study of experimental techniques and the interpretation of experimental results In the present third volume we treat a number of phenomena which are directly related to phonons The aim of this book is to bridge the gap between theory and experi ment An attempt has been made to present the descriptive as well as the analytical aspects of the topics Although emphasis is placed on the role of phonons in the different topics most chapters also contain a general intro duction into the specific subject. The book is addressed to experimentalists and to theoreticians working in the vast field of dynamical properties of solids It will also prove useful to graduate students starting research in this or related fields The choice of the topics treated was partly determined by the author's own activity in these areas This is particularly the case for the chapters dealing with phonons in one dimensional metals disordered systems super ionic conductors and certain newer aspects of ferroelectricity and melting I am very grateful to my colleagues I Bernasconi V T Hochli and 1 **Phonons, Theory and Experiments** ,1987 **Physics of Transition Metal Oxides** Sadamichi Maekawa, Takami Tohyama, Stewart Edward Barnes, Sumio Ishihara, Wataru Koshibae, Giniyat Khaliullin, 2013-03-09 The fact that magnetite Fe304 was already known in the Greek era as a peculiar mineral is indicative of the long history of transition metal oxides as useful materials. The discovery of high temperature superconductivity in 1986 has renewed interest in transition metal oxides High temperature su perconductors are all cuprates Why is it To answer to this question we must understand the electronic states in the cuprates Transition metal oxides are also familiar as magnets They might be found stuck on the door of your kitchen refrigerator Magnetic materials are valuable not only as magnets but as electronics materials Manganites have received special attention recently because of their extremely large magnetoresistance an effect so large that it is called colossal magnetoresistance CMR What is the difference between high temperature superconducting cuprates and CMR manganites Elements with incomplete d shells in the periodic table are called tran sition elements Among them the following eight elements with the atomic numbers from 22 to 29 i e Ti V Cr Mn Fe Co Ni and Cu are the most im portant These elements make compounds with oxygen and present a variety of properties High temperature superconductivity and CMR are examples Most of the textbooks on magnetism discuss the magnetic

properties of transition metal oxides However when one studies magnetism using tradi tional textbooks one finds that the transport properties are not introduced in the initial stages **Electron Spectrum of Gapless Semiconductors** J. Tsidilkovski, 2012-12-06 Electron Spectrum of Gapless Semiconductors presents the peculiarities of physical properties of a comparatively new class of solids gapless semiconductors GS These peculiarities are determined by the main feature of the elctron spectrum namely the absence of a gap between the conduction and valence bands GSs form a boundary between metals and semiconductors On the other hand GSs are of practical interest since they are very sensitive to impurities and to the influence of light magnetic and electric fields and pressure Field Theories for Low-Dimensional Condensed Matter Systems Guiseppe Morandi, Pasquale Sodano, Arturo Tagliacozzo, Valerio Tognetti, 2013-03-14 This book is especially addressed to young researchers in theoretical physics with a basic background in Field Theory and Condensed Matter Physics The topics were chosen so as to offer the largest possible overlap between the two expertises selecting a few key problems in Condensed Matter Theory which have been recently revisited within a field theoretic approach The presentation of the material is aimed not only at providing the reader with an overview of this exciting frontier area of modern theoretical physics but also at elucidating most of the tools needed for a technical comprehen sion of the many papers appearing in current issues of physics journals and hopefully to enable the reader to tackle research problems in this area of physics This makes the material a live creature while not pretending it to be exhaustive it is tutorial enough to be useful to young researchers as a starting point in anyone of the topics covered in the book **Electronic Conduction in Oxides** Nobuo Tsuda, Keiichiro Nasu, Akira Yanase, Kiiti Siratori, 2013-03-09 This book is a revised and up dated translation of Denki DendOsei Sankabutsu Electronic Conduction in Oxides published by Shokabo in Tokyo in 1983 as the second volume of the Material Science Series which was edited for postgraduate students by T Suzuki S Chikazumi and S Nakajima Since the publication of the first edition we have witnessed the historic discovery of high Tc superconductors by J G Bednorz and K A M ller The Shokabo edition has thus been thoroughly revised to accommodate the recent developments and K Nasu joined as the fourth author The constitution of the book is as follows After a short introductory chapter Chap 2 is devoted 10 a brief review of transport phenomena and electronic states in oxides It was written by Tsuda In Chap 3 the electron phonon and electron electron interaction are treated theoretically by Nasu and Yanase Nasu discusses the present status of theoretical studies of the electron phonon interaction in solids and Yanase explains the electron correlation Chapter 4 treats the physics ofvarious representative oxides in detail Sections 4 1 5 and 4 10 were written by Tsuda and Sects 4 6 9 by Siratori This chapter is intended not as an exhaustive review of the properties of each oxide but rather as an illustration of the concepts which have developed out of the research into transport phenomena in conductive oxides Many of these concepts are due 10 N F Mott At the end of Chap Products of Random Matrices Andrea Crisanti, Giovanni Paladin, Angelo Vulpiani, 2012-12-06 At the present moment after the success of the renormalization group in providing a conceptual framework for studying

second order phase tran sitions we have a nearly satisfactory understanding of the statistical me chanics of classical systems with a non random Hamiltonian The situation is completely different if we consider the theory of systems with a random Hamiltonian or of chaotic dynamical systems The two fields are connected in fact in the latter the effects of deterministic chaos can be modelled by an appropriate stochastic process Although many interesting results have been obtained in recent years and much progress has been made we still lack a satisfactory understanding of the extremely wide variety of phenomena which are present in these fields The study of disordered or chaotic systems is the new frontier where new ideas and techniques are being developed More interesting and deep results are expected to come in future years The properties of random matrices and their products form a basic tool whose importance cannot be underestimated. They play role as important as Fourier transforms for differential equations This book is extremely interesting as far as it presents a unified approach for the main results which have been obtained in the study of random ma trices It will become a reference book for people working in the subject The book is written by physicists uses the language of physics and I am sure that many physicists will read it with great pleasure **Ultrafast Spectroscopy of Semiconductors and Semiconductor** Nanostructures Jagdeep Shah, 2013-11-21 The field of ultrafast spectroscopy of semiconductors and their nanostruc tures continues to be an active field of research Exciting new developments have taken place since the first edition of this book was completed in 1995 This revised edition includes a discussion of many of these recent develop ments in the field This is accomplished by adding a chapter on Recent De velopments at the end of the book This approach was selected to provide a discussion of results while they are still relatively recent Results published before the end of May 1998 were considered for inclusion in this book The objective of this revised edition remains the same as before to provide a co hesive discussion of the many diverse contributions of ultrafast spectrosco py to the field of semiconductors Extensive cross references are made to earlier chapters in order to accomplish this goal The chapter on Recent Developments begins with a brief discussion of new lasers new techniques of ultrafast spectroscopy and novel nanostruc tures This is followed by a section on Coherent Spectroscopy where some of the most interesting recent developments have taken place These include observation of quantum kinetic effects effects that require going beyond the mean field approach of the semiconductor Bloch equations coherent control of populations and current in semiconductors exciton continuum interac tions and many diverse aspects of coherent spectroscopy including studies of microcavities Bragg structures quantum dots and quantum wires **Magnetism** in the Solid State Peter Mohn, 2002-11-13 This book presents a phenomenological approach to the field of solid state magnetism It surveys the various theories and discusses their applicability in different types of materials The text will be valuable as a text for graduate courses in magnetism and magnetic materials **Elementary Processes in Excitations** and Reactions on Solid Surfaces Ayao Okiji, Hideaki Kasai, Kenji Makoshi, 2012-12-06 Elementary Processes in Excitations and Reactions on Solid Surfaces explores the fundamental nature of dynamics on solid surfaces Attempts are made to reveal

various aspects of elementary processes in excitations and reactions on solid surfaces by recent theoretical and experimental developments of the subjects such as molecular beams interacting with surfaces ion beam scattering laser induced dynamical processes electronically induced dynamical processes and optical properties of solid surfaces This volume is devided into three parts Part I is concerned mainly with the rich reaction dynamics on potential energy surfaces Part II is devoted to the interplay of excitations In Part III new and rapidly developing methods are introduced *Self-Trapped Excitons* K.S. Song, Richard T. Williams, 2013-03-08 Self Trapped Excitons discusses the structure and evolution of the self trapped exciton STE in a wide range of materials It includes a comprehensive review of experiments and extensive tables of data Emphasis is given throughout to the unity of the basic physics underlying various manifestations of self trapping with the theory being developed from a localized atomistic perspective The topics treated in detail in relation to STE relaxation include spontaneous symmetry breaking lattice defect formation radiation damage and electronic sputtering and Rupture of Elastic Solids D. Maugis, 2013-03-14 In 1970 an investigation into rubber friction sponsored by a manufacturer of automobile windscreen wipers was being carried out at the Cavendish Laboratory in Cambridge England When a smooth spherical slider of soft rubber was placed in contact with flat glass or perspex the compliance of the rubber enabled it to conform to any slight roughness of the two surfaces such that perfect contact was obtained In these circumstances the surfaces were found to adhere under load the contact area exceeded that predicted by the Hertz theory of elastic contact a contact area of finite size was seen at zero load and a tensile force was required to pull the surfaces apart In an attempt to model these observations the JKR theory Johnson Kendall and Roberts 1971 was born At the same time working in Moscow on adhesion of particles in colloidal suspension Derjaguin Muller and Toporov had developed a different DMT theory of the adhesion of elastic spheres DMT 1975 At first it was thought that these theories were incompatible until Tabor suggested that each applied to opposite ends of the spectrum of a non-dimensional parameter which expressed the ratio of the magnitude of the elastic deformation to the range of surface forces This work was followed by Maugis and Barquins in the CNRS Laboratory at Belle Vue who recognised the analogy between adhesion and fracture Spectroscopy of Mott Insulators and Correlated Metals Atsushi Fujimori, Yoshinori Tokura, 2012-12-06 Extensive studies of high Tc cuprate superconductors have stimualted investigations into various transition metal oxides Mott transitions in particular provide fascinating problems and new concepts in condensed matter physics This book is a collection of overviews by well known active researchers in this field It deals with the latest developments with particular emphasis on the theoretical spectroscopic and transport aspects Magnetic Flux Structures in Superconductors R.P. Huebener, 2013-03-14 The first edition of this book provided an introduction to the many static and dynamic features of magnetic flux structures in what are now called classical or low temperature superconductors It went out of print not long after the discovery of high temperature superconductors in 1986 by J G Bednorz and K A Miller a discovery which resulted worldwide in an explosive growth of

research and development in the field of superconductivity Because of this upsurge of activities a strong demand for this book clearly continued Since the contents of the fourteen chapters of the first edition are still valid and continue to represent a useful introduction into the various subjects it was felt that a reprinting of these chapters in this second edition would be highly attractive In this way the reader is also able to trace the earlier scienti fic developments themselves constituting important ideas sometimes forgot ten by the new community dealing with high temperature superconductivity However because of the exciting and important recent progress in the field of high temperature superconductivity an extensive chapter has been added in this second edition It provides a summary of the new developments and a discussion of the highlights Here keywords such as vortex matter vortex imaging and half integer magnetic flux quanta describe surprising Optics of Semiconductors and Their Nanostructures Heinz Kalt, Michael Hetterich, 2013-04-09 In recent new issues 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

Principles of Magnetic Resonance Charles P. Slichter, 2013-04-17 The first edition of this book was written in 1961 when I was Morris Loeb Lecturer in Physics at Harvard In the preface I wrote The problem faced by a beginner today is enormous If he attempts to read a current article he often finds that the first paragraph refers to an earlier paper on which the whole article is based and with which the author naturally assumes familiarity That reference in turn is based on another so the hapless student finds himself in a seemingly endless retreat I have felt that graduate students or others beginning research in magnetic resonance needed a book which really went into the details of calculations yet was aimed at the beginner rather than the expert The original goal was to treat only those topics that are essential to an understanding of the literature Thus the goal was to be selective rather than comprehensive With the passage of time important new concepts were becoming so all pervasive that I felt the need to add them That led to the second edition which Dr Lotsch Physics Editor of Springer Verlag encouraged me to write and which helped launch the Springer Series in Solid State Sciences Now ten years later that book and its 1980 revised printing is no longer available Meanwhile workers in magnetic resonance have continued to develop startling new insights

Electron Correlations in Molecules and Solids Peter Fulde, 2012-12-06 Electron Correlations in Molecules and Solids state theory In the first

half of the text new concepts are developed for treating many body and correlation effects combining standard quantum chemical methods with projection techniques Greens function methods and Monte Carlo techniques The second half deals with applications of the theory to molecules semiconductors transition metals heavy fermion systems and the new high Tc superconducting materials

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