

P. Brüesch

Phonons: Theory and Experiments III

Phenomena Related to Phonons



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Phonons Theory And Experiments Iii Phenomena Related To Phonons Phonons

K.S. Song, Richard T. Williams



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well as the analytical aspects of the topics. Although emphasis is placed on the experimental and theoretical study of the dynamics of atoms in solids, most chapters also contain a general introduction 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 experiment. 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 introduction 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, superionic conductors and certain newer aspects of ferroelectricity and melting. I am very grateful to my colleagues J. Bernasconi, V. T. Hochli and I.

Phonons, Theory and Experiments, 1987. **Phonons, Theory and Experiments** Peter Brüesch, 1982. **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. *Contact, Adhesion 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

Two-Dimensional Coulomb Liquids and Solids Yuriy Monarkha, Kimitoshi Kono, 2013-03-09 This book is about quantum phenomena in two dimensional 2D electron systems with extremely strong internal interactions The central objects of interest are Coulomb liquids in which the average Coulomb interaction energy per electron is much higher than the mean kinetic energy and Wigner solids The main themes are quantum transport in two dimensions and the dynamics of highly correlated electrons in the regime of strong coupling with medium excitations In typical solids the mutual interaction energy of charge carriers is of the same order of magnitude as their kinetic energy and the Fermi liquid approach appears to be quite satisfactory However in 1970 a broad research began to investigate a remarkable model 2D electron system formed on the free surface of superfluid helium In this system complementary to the 2D electronic systems formed in semiconductor interface structures the ratio of the mean Coulomb energy of electrons to their kinetic energy can reach approximately a hundred before it undergoes the Wigner solid WS transition Under such conditions the Fermi liquid description is doubtful and one needs to introduce alternative treatments Similar interface electron systems form on other cryogenic substrates like neon and solid hydrogen

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 divided 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

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 Fe_3O_4 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 superconductors 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 transition 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 important 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 traditional textbooks one finds that the transport properties are not introduced in the initial stages

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 comprehension 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

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 transitions we have a nearly satisfactory understanding of the statistical mechanics 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 a 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 matrices 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

Electron Correlations in Molecules and

Solids Peter Fulde, 2012-12-06 *Electron Correlations in Molecules and Solids* bridges the gap between quantum chemistry and solid 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 Spectroscopy of Mott Insulators and Correlated Metals

Atsushi Fujimori, Yoshinori Tokura, 2012-12-06 Extensive studies of high Tc cuprate superconductors have stimulated 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

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 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

Electronic Conduction in Oxides Nobuo Tsuda, Keiichi Nasu, Akira Yanase, Kiiti Siratori, 2013-03-09 This book is a revised and up dated translation of *Denki Dendōsei 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 Müller 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 to 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 of various 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 to N. F. Mott At the end of Chap 4

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 electron 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

Ultrafast Spectroscopy of Semiconductors and Semiconductor Nanostructures Jagdeep Shah, 2013-11-21 The field of ultrafast spectroscopy of semiconductors and their nanostructures 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 developments in the field This is accomplished by adding a chapter on Recent Developments 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 cohesive discussion of the many diverse contributions of ultrafast spectroscopy 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 nanostructures 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 interactions and many diverse aspects of coherent spectroscopy including studies of microcavities Bragg structures quantum dots and quantum wires

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