



Anharmonic Crystal

Arnold M. Kosevich



Anharmonic Crystal:

The Anharmonic Crystal Philippe Choquard, 1967

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Acoustic

Metamaterials and Phononic Crystals Pierre A. Deymier, 2013-01-13 This comprehensive book presents all aspects of acoustic metamaterials and phononic crystals The emphasis is on acoustic wave propagation phenomena at interfaces such as refraction especially unusual refractive properties and negative refraction A thorough discussion of the mechanisms leading to such refractive phenomena includes local resonances in metamaterials and scattering in phononic crystals

Electron Density and Bonding in Crystals V.G Tsirelson, R.P Ozerov, 2020-11-26

Electron Density and Bonding in Crystals Principles Theory and X Ray Diffraction Experiments in Solid State Physics and Chemistry provides a comprehensive unified account of the use of diffraction techniques to determine the distribution of electrons in crystals The book discusses theoretical and practical techniques the application of electron density studies to chemical bonding and the determination of the physical properties of condensed matter The book features the authors own key contributions to the subject as well a thorough critical summary of the extensive literature on electron density and bonding Logically organized coverage ranges from the theoretical and experimental basis of electron density determination to its impact on investigations of the nature of the chemical bond and its uses in determining electromagnetic and optical properties of crystals The main text is supplemented by appendices that provide clear concise guidance on aspects such as systems of units quantum theory of atomic vibrations atomic orbitals and creation and annihilation operators The result is a valuable compendium of modern knowledge on electron density distributions making this reference a standard for crystallographers condensed matter physicists theoretical chemists and materials scientists

Scattering of Thermal Neutrons Andre Larose, 2012-12-06

Solid state physicists have long appreciated the usefulness of thermal neutron scattering in the investigation of condensed matter This technique was first made possible by the advent of the nuclear reactor and has since then undergone many refinements The developments in this field of research have we felt necessitated the making of a comprehensive compilation of the published thermal neutron papers The large number of titles collected in this book as well as their diversity and their yearly distribution reflects the continued contribution of the neutron probe to our understanding of physical systems This bibliography is an updated and improved version of the one first published by us in March of 1973 under a similar title Many of the omissions and inconsistencies of the first edition such as occurred for example in the initialing of authors names have been corrected The literature search has been carried back to 1932 the year when the existence of the neutron was experimentally confirmed Several additional journals have also been searched and brought up to date together with those listed in our first publication The number of entries is now 8543 an increase of 65 per cent relative to the first edition

The Statistical Mechanics of Quantum Lattice Systems, 2009 Quantum statistical mechanics plays a major role in many fields such as thermodynamics plasma physics solid state physics and the study of stellar structure While the theory of

quantum harmonic oscillators is relatively simple the case of anharmonic oscillators a mathematical model of a localized quantum particle is more complex and challenging Moreover infinite systems of interacting quantum anharmonic oscillators possess interesting ordering properties with respect to quantum stabilization This book presents a rigorous approach to the statistical mechanics of such systems in particular with respect to their actions on a crystal lattice The text is addressed to both mathematicians and physicists especially those who are concerned with the rigorous mathematical background of their results and the kind of problems that arise in quantum statistical mechanics The reader will find here a concise collection of facts concepts and tools relevant for the application of path integrals and other methods based on measure and integration theory to problems of quantum physics in particular the latest results in the mathematical theory of quantum anharmonic crystals The methods developed in the book are also applicable to other problems involving infinitely many variables for example in biology and economics

Handbook of Materials Modeling Sidney Yip, 2007-11-17 This Handbook contains a set of articles introducing the modeling and simulation of materials from the standpoint of basic methods and studies The intent is to provide a compendium that is foundational to an emerging field of computational research a new discipline that may now be called Computational Materials This area has become sufficiently diverse that any attempt to cover all the pertinent topics would be futile Even with a limited scope the present undertaking has required the dedicated efforts of 13 Subject Editors to set the scope of nine chapters solicit authors and collect the manuscripts The contributors were asked to target students and non specialists as the primary audience to provide an accessible entry into the field and to offer references for further reading With no precedents to follow the editors and authors were only guided by a common goal to produce a volume that would set a standard toward defining the broad community and stimulating its growth The idea of a reference work on materials modeling surfaced in conversations with Peter Binfield then the Reference Works Editor at Kluwer Academic Publishers in the spring of 1999 The rationale at the time already seemed quite clear the field of computational materials research was taking off powerful computer capabilities were becoming increasingly available and many sectors of the scientific community were getting involved in the enterprise

Optical Spectra and Lattice Dynamics of Molecular Crystals G.N. Zhizhin, E.I. Mukhtarov, 1995-10-17 The current volume is a single topic volume on the optical spectra and lattice dynamics of molecular crystals The book is divided into two parts Part I covers both the theoretical and experimental investigations of organic crystals Part II deals with the investigation of the structure phase transitions and reorientational motion of molecules in organic crystals In addition appendices are given which provide the parameters for the calculation of the lattice dynamics of molecular crystals procedures for the calculation of frequency eigenvectors of utilizing computers and the frequencies and eigenvectors of lattice modes for several organic crystals Quite a large amount of Russian literature is cited some of which has previously not been available to scientists in the West

Crystallography and Practical Crystal Measurement Alfred Edwin Howard Tutton, 1922

Temperature Dependence of Infrared Dispersion in Ionic Crystals of LiF and MgO John R.

Jasperse,1966 Crystallography and Practical Crystal Measurement Alfred Edwin Howard Tutton,1922 *Effects of Phonon Interactions on the Scattering of Neutrons by Crystals* J. J. J. Kokkedee,1962 The Crystal Lattice Arnold M. Kosevich,1999-12-21 Arnold M Kosevich The Crystal Lattice Phonons Solitons Dislocations The goal of the book is to describe and analyse peculiarities of classical and quantum dynamics of a crystal as a spatially periodic structure Both traditional questions like the spectrum of vibrations the idea of phonon gas dislocations etc and new aspects like the theory of quantum crystals solitons in 1D crystals dislocation theory of melting of 2D crystals etc are discussed The author gives an explanation of a set of phenomena which entered into solid state physics during the last few decades It is shown that the crystal properties are sensitive to the dimension of the crystal and its defect structure and depend slightly on whether the periodic structure consists of atoms or electrical dipoles or magnetic moments spins Considerable attention is devoted to the dislocation mechanics as a basis of theory of plasticity and numerous technological applications of crystal materials **U.S. Government Research & Development Reports** ,1970 Thermodynamics of Crystals Duane C. Wallace,1972 Self contained treatment focuses on the solution of lattice dynamics problems calculations of total crystal potential evaluation of thermodynamic functions Only modest background in quantum mechanics solid state physics required **Proceedings of the Nuclear Physics and Solid State Physics Symposium** ,1973 CRYSTALLINE FORM AND CHEMICAL CONSTITUTION A. E. H. TUTTON,1926 **Journal of the Physical Society of Japan** ,2003 Science Abstracts ,1929 *The Dilatation of Crystals on Change of Temperature* Lazarus Fletcher,1883

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