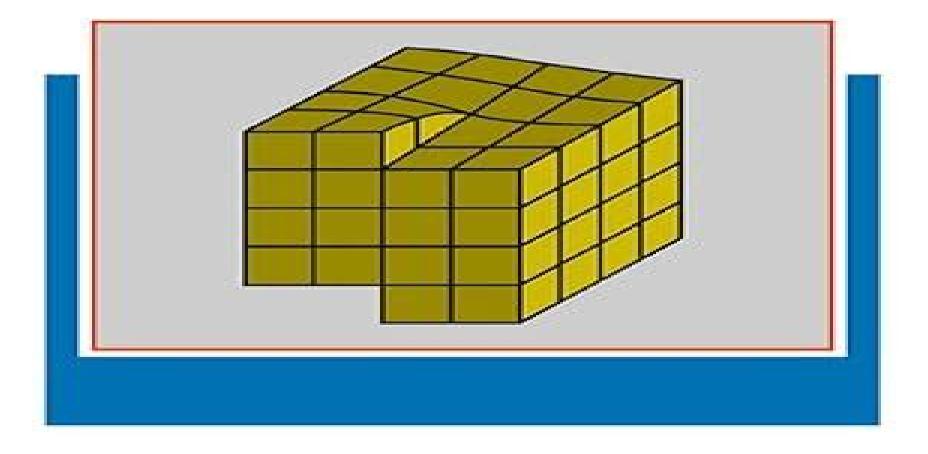
The Crystal Lattice

Phonons, Solitons, Dislocations



<u>Crystal Lattice Phonons Solitons</u> <u>Dislocationbuperlattices</u>

Minoru Fujimoto

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needed to understand the theory **Electrons and Phonons in Layered Crystal Structures** T.J. Wieting, M. Schlüter, 2012-12-06 This volume is devoted to the electron and phonon energy states of inorganic layered crystals The distinctive feature of these low dimensional materials is their easy mechanical cleavage along planes parallel to the layers This feature implies that the chemical binding within each layer is much stronger than the binding between layers and that some but not necessarily all physical properties of layered crystals have two dimensional character In Wyckoff's Crystal Structures SiC and related compounds are regarded as layered structures because their atomic layers are alternately stacked according to the requirements of cubic and hexagonal close packing How ever the uniform tetrahedral coordination of the atoms in these compounds excludes the kind of structural anisotropy that is fundamental to the materials discussed in this volume An individual layer of a layered crystal may be composed of either a single sheet of atoms as in graphite or a set of up to five atomic sheets as in Bi2 Te3 A layer may also have more complicated arrangements of the atoms as we find for example in Sb S But the unique feature common to all these materials is 2 3 the structural anisotropy which directly affects their electronic and vibrational properties The nature of the weak interlayer coupling is not very well understood despite the frequent attribution of the coupling in the literature to van der Waals forces Two main facts however have emerged from all The Physics of Phonons G.P Srivastava, 2019-07-16 There have been few books devoted to the study of phonons studies a major area of condensed matter physics The Physics of Phonons is a comprehensive theoretical discussion of the most important topics including some topics not previously presented in book form Although primarily theoretical in approach the author refers to experimental results wherever possible ensuring an ideal book for both experimental and theoretical researchers The author begins with an introduction to crystal symmetry and continues with a discussion of lattice dynamics in the harmonic approximation including the traditional phenomenological approach and the more recent ab initio approach detailed for the first time in this book A discussion of anharmonicity is followed by the theory of lattice thermal conductivity presented at a level far beyond that available in any other book The chapter on phonon interactions is likewise more comprehensive than any similar discussion elsewhere The sections on phonons in superlattices impure and mixed crystals quasicrystals phonon spectroscopy Kapitza resistance and quantum evaporation also contain material appearing in book form for the first time The book is complemented by numerous diagrams that aid understanding and is comprehensively referenced for further study With its unprecedented wide coverage of the field The Physics of Phonons will be indispensable to all postgraduates advanced undergraduates and researchers working on condensed matter physics The Physics of **Phonons** Gyaneshwar P. Srivastava, 2022-09-28 This fully updated second edition of The Physics of Phonons remains the most comprehensive theoretical discussion devoted to the study of phonons a major area of condensed matter physics It contains exciting new sections on phonon related properties of solid surfaces atomically thin materials such as graphene and monolayer transition metal chalcogenides in addition to nano structures and nanocomposites thermoelectric nanomaterials

and topological nanomaterials with an entirely new chapter dedicated to topological nanophononics and chiralphononics Although primarily theoretical in approach the author refers to experimental results wherever possible ensuring an ideal book for both experimental and theoretical researchers. The author begins with an introduction to crystal symmetry and continues with a discussion of lattice dynamics in the harmonic approximation including the traditional phenomenological approach and the more recent ab initio approach detailed for the first time in this book A discussion of anharmonicity is followed by the theory of lattice thermal conductivity presented at a level far beyond that available in any other book The chapter on phonon interactions is likewise more comprehensive than any similar discussion elsewhere The sections on phonons in superlattices impure and mixed crystals quasicrystals phonon spectroscopy Kapitza resistance and quantum evaporation also contain material appearing in book form for the first time. The book is complemented by numerous diagrams that aid understanding and is comprehensively referenced for further study With its unprecedented wide coverage of the field The Physics of Phonons is an indispensable guide for advanced undergraduates postgraduates and researchers working in condensed matter physics and materials science Features Fully updated throughout with exciting new coverage on graphene nanostructures and nanocomposites thermoelectric nanomaterials and topological nanomaterials Authored by an authority on phonons Interdisciplinary with broad applications through condensed matter physics nanoscience and materials **Solitons in Crystalline Processes** Minoru Fujimoto, 2020 Solitons play a fundamental role in ordering science processes in crystals In the first edition the essential mechanism of structural changes where solitons play the fundamental role of boson statistics was detailed for irreversible thermodynamics in crystals explaining not only structural transformations and mesoscopic disorder but also the nonlinear mechanism of superconductivity A major development and extension presented in this new edition is in the application of soliton theory to polymers and liquid crystals in addition to capturing both theoretical developments and newer experimental results of soliton analysis in general This new edition also emphasises the thermodynamics of soft modes pseudospins and order variables for finite lattice displacements The soliton statistics of the nonlinear order variables are logically discussed **Phonons and Resonances in Solids** Baldassare Di Bartolo, Richard Conger Powell, 1976 Crystal Symmetry, Lattice Vibrations, And Optical Spectroscopy Of Solids: A **Group Theoretical Approach** Baldassare Di Bartolo, Richard C Powell, 2014-05-21 This book provides a comprehensive treatment of the two fundamental aspects of a solid that determine its physical properties lattice structure and atomic vibrations phonons The elements of group theory are extensively developed and used as a tool to show how the symmetry of a solid and the vibrations of the atoms in the solid lead to the physical properties of the material The uses of different types of spectroscopy techniques that elucidate the lattice structure of a solid and the normal vibrational modes of the atoms in the solid are described The interaction of light with solids optical spectroscopy is described in detail including how lattice symmetry and phonons affect the spectral properties and how spectral properties provide information about the material s

symmetry and normal modes of lattice vibrations. The effects of point defects doping on the lattice symmetry and atomic vibrations and thus the spectral properties are discussed and used to show how material symmetry and lattice vibrations are critical in determining the properties of solid state lasers **Phonons in Low Dimensional Structures** Vasilios N. Stavrou, 2018-12-12 The field of low dimensional structures has been experiencing rapid development in both theoretical and experimental research Phonons in Low Dimensional Structures is a collection of chapters related to the properties of solid state structures dependent on lattice vibrations. The book is divided into two parts. In the first part research topics such as interface phonons and polaron states carrier phonon non equilibrium dynamics directional projection of elastic waves in parallel array of N elastically coupled waveguides collective dynamics for longitudinal and transverse phonon modes and elastic properties for bulk metallic glasses are related to semiconductor devices and metallic glasses devices The second part of the book contains among others topics related to superconductor phononic crystal carbon nanotube devices such as phonon dispersion calculations using density functional theory for a range of superconducting materials phononic crystal based MEMS resonators absorption of acoustic phonons in the hyper sound regime in fluorine modified carbon nanotubes and single walled nanotubes phonon transport in carbon nanotubes quantization of phonon thermal conductance and phonon Anderson localization Solitons and Nonlinear Waves of Phonon-Polaritons and Plasmon-Polaritons Igor V. Dzedolik, 2016 We study the solitons and nonlinear waves of phonon polaritons and plasmon polaritons with the frequencies in the terahertz and optical ranges in nonlinear media and investigate the polariton spectrum in nonlinear dielectric media with the third order Kerr type nonlinearity We study the dependence of numbers of polariton spectrum branches on the intensity of the electromagnetic field and demonstrate that the appearance of the new branches located in the polariton spectrum gap are caused by the dispersion of the third order dielectric susceptibility at the intensive electromagnetic field in the medium The modulation instability of the new spectrum branch waves leads to the appearance of the spatial solitons or cnoidal non linear waves These scalar and vector phonon polariton spatial solitons and cnoidal waves appear in the boundless dielectric medium The polariton gets the mass that depends on the efficiency of the interaction of the electromagnetic field and medium We investigate the linearly and circularly polarised nonlinear polariton waves in the self focusing and self defocusing media The spatial soliton or cnoidal wave corresponds to one or several flat fluxes of the polaritons for the linearly polarised wave The right or left circularly polarised polariton scalar wave corresponds to several polariton fluxes in the form of a filament bundle In addition we examine the instability of the linearly and circularly polarised polariton wave in the nonlinear dielectric medium We consider the nonlinear models of generation of the surface plasmon polaritons SPPs at the boundary of a nonmagnetic dielectric medium and a nonmagnetic metal We show how the three dimensional incident wave transforms to the fluxes of the SPPs at the first and second harmonics in the TM mode These slow and fast fluxes of the SPPs are formed at the first and second harmonics when their interaction is weak The incoming SPP pulse transforms to the bright and dark

solitons at the strong harmonic interaction We consider the generation of the SPP pulses at the first and second harmonics of the carrier wave at the boundary of a uniaxial crystal and a non magnetic metal The SPP pulses at the first and second harmonics can arise in the form of the bright and dark solitons or as the cnoidal waves in accordance with the synchronism of velocity of the SPP pulses We study the variation of the interaction efficiency and the changes of forms of the SPP pulses due to the exact or non exact synchronism of their velocities and show that the selection of crystal and metal pairs allows us to change the forms of the SPP pulses We show how to use the non linear waves and pulses for designing the optical devices such as the optical converter controllable filter and all optical logic gates Solitons in Crystalline Processes Minoru Fujimoto, 2017-11 Annotation Solitons in Crystalline Processes presents the soliton theory applied to crystalline processes for the first time Starting with critical anomalies in binary transitions the soliton idea leads to nonlinear waves in crystals constituting the basic objective in this book The theory explains logically not only structural transformations and mesoscopic disorder but also the nonlinear mechanism of superconductivity with respect to the charge current continuity substantiated by experimental studies in contrast for magnetic systems where solitons are relatively insignificant Generally solitons play the fundamental role in ordering processes in crystals where the collective motion are essential for mesoscopic disorder in thermal equilibrium 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 Parts I and II introduce the theory and experimental techniques while Part III discusses soliton theory of lattice dynamics in detail and Part IV discusses the applications of this theory to superconductivity and magnetism Exercises are given for each chapter to further develop understanding and mathematics are limited to those needed to understand the Lattice dynamics A. A. Maradudin, Phonons in Condensed Matter Physics R. K. Singh, S. P. Sanyal, 1990 theory Comprises detailed reviews on a wide range of recent theoretical and experimental methods for studying properties of condensed matter including much material not previously published Coverage includes advanced techniques in computational solid state physics simulation methods low temperature physics high pressure phase transition and microscopic theories of phonons **Proceedings of the International Conference on Lattice Dynamics Minko** Balkanski, 1978 Lattice Vibrations Brian Donovan, J. F. Angress, 1971 **Crystal Lattice Defects and Dislocation Dynamics** Robert A. Vardanian, 2001 Dislocations in solids are peculiar among numerous defects in the crystal lattice From the viewpoint of dimensionality dislocation represents one dimensional defect translationally invariant along its axis Physically it is a topological defect i e a fictitious formation violating the lattice symmetry As a result dislocations have a significant effect on various electric and optical characteristics of metals as well as semiconductors This book reviews the state of experiment and theory concerning the principal mechanisms of dislocational motion Depending on the value of applied load dislocation dynamics is considered in the Peierls potential relief random field of point defects or under

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