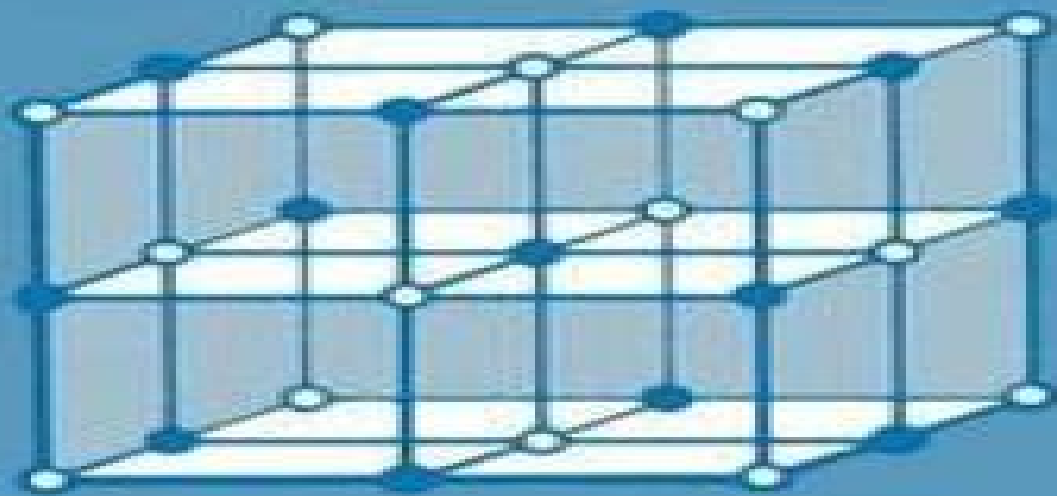


# The Lattice Dynamics and Statics of Alkali Halide Crystals

John R. Hardy and Arnold M. Karo



# The Lattice Dynamics And Statics Of Alkali Halide Crystals

**Vladimir G. Plekhanov**



## **The Lattice Dynamics And Statics Of Alkali Halide Crystals:**

**The Lattice Dynamics and Statics of Alkali Halide Crystals** J. R Hardy,1979-11-01      **The Lattice Dynamics and Statics of Alkali Halide Crystals** J. R. Hardy,2012-12-06 Lattice dynamics is a classic part of solid state physics and the alkali halide crystals are classic materials Nearly every new technique in many body theory has first been applied to lattice dynamical problems and much of our present understanding of the physics of real crystals has its origins in pioneering work both experimental and theoretical carried out between 1920 and 1950 on alkali halide systems The object of the present text is to present a unified coverage of that part of physics where these two areas overlap and to extend this coverage somewhat in order to include not merely the dynamical behavior of alkali halides but also their static behavior Specifically we discuss the manner in which these materials respond to the presence of point imperfections The rationale for this extension is simple mechanics includes both dynamics and statics and a text which discusses the former should also discuss the latter Two other unifying themes are also present the data presented are largely the result of our long collaboration in this area and the work is a partial history of the impact of digital computers on lattice dynamics an impact which parallels their impact on the whole of solid state physics Since this work is largely an account of model calculations we have stressed the use of the simplest possible model at each level of sophistication and its uniform application to the crystals discussed      *Lattice Dynamics and Statics of Alkali Halide Crystals* Hardy, JR.,1979      *Mössbauer Effect in Lattice Dynamics* Yi-Long Chen,De-Ping Yang,2007-09-24 This up to date review closes an important gap in the literature by providing a comprehensive description of the Mössbauer effect in lattice dynamics along with a collection of applications in metals alloys amorphous solids molecular crystals thin films and nanocrystals It is the first to systematically compare Mössbauer spectroscopy using synchrotron radiation to conventional Mössbauer spectroscopy discussing in detail its advantages and capabilities backed by the latest theoretical developments and experimental examples Intended as a self contained volume that may be used as a complete reference or textbook it adopts new pedagogical approaches with several non traditional and refreshing theoretical expositions while all quantitative relations are derived with the necessary details so as to be easily followed by the reader Two entire chapters are devoted to the study of the dynamics of impurity atoms in solids while a thorough description of the Mannheim model as a theoretical method is presented and its predictions compared to experimental results Finally an in depth analysis of absorption of Mössbauer radiation is presented based on recent research by one of the authors resulting in an exact expression of fractional absorption otherwise unavailable in the literature The whole is supplemented by elaborate appendices containing constants and parameters      *Atomic Mechanics of Solids* A.K. Macpherson,2012-12-02 This volume brings together some of the presently available theoretical techniques which will be useful in the design of solid state materials At present it is impossible to specify the atomic composition of a material and its macroscopic physical properties However the future possibilities for such a science are being laid today This is coming about due to the development of fast

cheap computers which will be able to undertake the calculations which are necessary Since this field of science is fairly new it is not yet quite clear which direction of analysis will eventually prove to be the most successful In this respect the author has included the most relevant promising subject areas based on seven years of research experience in the field An extensive literature already exists for most of the areas covered here thus when more detailed analysis can be found elsewhere the assumptions made are discussed and only an outline of the method involved is presented Comprehensive indexes are provided to assist the reader in further studies This is a potentially important field which is slowly getting underway and only needs a significant development to attract a broader scientific interest The work will be of considerable interest to program managers needing to assess this new field      Applications of the Isotopic Effect in Solids Vladimir G. Plekhanov, 2013-04-17

This is the first book in world literature devoted to applications of the isotopic effect in solids It is accessible to physicists chemists electronic engineers and material scientists alike This book is intended both as tutorial and as reference Readers seeking to learn the basics of application of the isotopic effect in solids should start by reading the first few overview chapters and then dig into descriptions of specific applications to see how they really work It is hoped that it will be useful to undergraduate and graduate students of physics and optics as well as engineers physicists material scientists and medical doctors who are interested in investigation or applications of the isotopic effect in solids This book is a state of the art introduction to very recent activity in solid state physics which has developed in the main during the last half century and promises a new technology of isotopic engineering Important applications are to be expected for information storage and developing materials for computer memory quantum computers isotopic fibers isotopic optoelectronics and quantum electronics as well as UV lasers The references I cite are those with which I am most familiar and which have helped us understand the subject as presented here There has been no attempt to give credit to each contributor but I have tried to cite the original papers which brought new and important results methods to applications of the isotopic effect in solids covered in this text      **Isotopes in**

**Condensed Matter** Vladimir G. Plekhanov, 2012-08-10 This book provides a concise introduction to the newly created sub discipline of solid state physics isotopetronics The role of isotopes in materials and their properties are described in this book The problem of the enigma of the atomic mass in microphysics is briefly discussed The range of the applications of isotopes is wide from biochemical process in living organisms to modern technical applications in quantum information Isotopetronics promises to improve nanoelectronic and optoelectronic devices With numerous illustrations this book is useful to researchers engineers and graduate students      *Handbook of Elastic Properties of Solids, Liquids, and Gases, Four-Volume Set* Moises

Levy, Henry Bass, Richard Stern, 2000-10-23 Sound waves propagate through galactic space through two dimensional solids through biological systems through normal and dense stars and through everything that surrounds us the earth the sea and the air We use sound to locate objects to identify objects to understand processes going on in nature to communicate and to entertain The elastic properties of materials determine the velocity of sound in them and tell us about their response to

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**Dynamics** Martin T. Dove, 2003-03-06 This volume describes how the arrangement of atoms in a solid and the way they move are related to the forces between atoms It also discusses how this affects the behaviour and properties of materials

*Neutron Scattering* , 1986-09-18 This work covers in some detail the application of neutron scattering to different fields of physics materials science chemistry biology the earth sciences and engineering Its goal is to enable researchers in a particular area to identify aspects of their work in which neutron scattering techniques might contribute conceive the important experiments to be done assess what is required to carry them out write a successful proposal for one of the major user facilities and perform the experiments under the guidance of the appropriate instrument scientist The authors of the various chapters take account of the advances in experimental techniques over the past 25 years for example neutron reflectivity and spin echo spectroscopy and techniques for probing the dynamics of complex materials and biological systems Furthermore with the third generation spallation sources recently constructed in the United States and Japan and in the advanced planning stage in Europe there is an increasing interest in time of flight techniques and short wavelengths Correspondingly the improved performance of cold moderators at both reactors and spallation sources has extended the long wavelength capabilities Chapter authors are pre eminent in their field Seminal experiments are presented as examples Provides guidance on how to plan execute and analyse experiments **Solid State Physics** , 2014-05-14 Solid State Physics

*Condensed Matter in a Nutshell* Gerald D. Mahan, 2011 An introduction to the area of condensed matter in a nutshell This textbook covers the standard topics including crystal structures energy bands phonons optical properties ferroelectricity superconductivity and magnetism **Atomic Scale Dynamics at Surfaces** Giorgio Benedek, Jan Peter Toennies, 2018-12-28

Experimental advances in helium atom scattering spectroscopy over the last forty years have allowed the measurement of surface phonon dispersion curves of more than 200 different crystal surfaces and overlayers of insulators semiconductors and metals The first part of the book presents at a tutorial level the fundamental concepts and methods in surface lattice dynamics and the theory of atom surface interaction and inelastic scattering in their various approximations up to the recent electron phonon theory of helium atom scattering from conducting surfaces The second part of the book after introducing the experimentalist to He atom spectrometers and the rich phenomenology of helium atom scattering from corrugated surfaces illustrates the most significant experimental results on the surface phonon dispersion curves of various classes of insulators semiconductors metals layered crystals topological insulators complex surfaces adsorbates ultra thin films and clusters The great potential of helium atom scattering for the study of atomic scale diffusion THz surface collective excitations including acoustic surface plasmons and the future prospects of helium atom scattering are presented in the concluding chapters The book will be valuable reading for all researchers and graduate students interested in dynamical processes at surfaces

**Solid State Ionics** World Scientific & Imperial College Press, J. Kawamura, 2012-07-05 Solid state ionics is a multidisciplinary scientific and industrial field dealing with ionic transport phenomena in solids In a couple of decades solid state ionics has become one of the largest disciplines closely related to energy technologies such as batteries fuel cells and so on So far a large number of scientists and engineers in Asia as well as in Europe and US are engaged in the research in solid state ionics In the context of such a situation the Asian Society for Solid State Ionics was founded in 1986 and a series of academic conferences has been held biennially since 1988 In 2012 the 13th conference is organized in Sendai Japan This book provides research papers describing the latest developments and findings in the field of solid state ionics The selected contributions from prominent researchers in the Asian Society for Solid State Ionics which are presented at the 13th Asian Conference on Solid State Ionics can be found The papers in this book are detailed and suitable to understand recent research trends in solid state ionics and thus will be a valuable resource for physicists chemists and material scientists

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*Proceedings of the 13th Asian Conference on Solid State Ionics* B. V. R. Chowdari, J. Kawamura, J. Mizusaki, K. Amezawa, 2012 Solid state ionics is a multidisciplinary scientific and industrial field dealing with ionic transport phenomena in solids In a couple of decades solid state ionics has become one of the largest disciplines closely related to energy technologies such as batteries fuel cells and so on So far a large number of scientists and engineers in Asia as well as in Europe and US are engaged in the research in solid state ionics In the context of such a situation the Asian Society for Solid State Ionics was founded in 1986 and a series of academic conferences has been held biennially since 1988 In 2012 the 13th conference is organized in Sendai Japan This book provides research papers describing the latest developments and findings

in the field of solid state ionics The selected contributions from prominent researchers in the Asian Society for Solid State Ionics which are presented at the 13th Asian Conference on Solid State Ionics can be found The papers in this book are detailed and suitable to understand recent research trends in solid state ionics and thus will be a valuable resource for physicists chemists and material scientists      **Matrix Isolation Spectroscopy** A. Barnes, W.J. Orville-Thomas, R.

Gaufrès, Achim Müller, 2012-12-06 The matrix isolation MI method has now been used for nearly thirty years During this period it has been actively developed and the range of problems tackled greatly extended Originally it was used for studies of transient species involving vibrational electronic and ESR spectroscopy Nowadays the study of transient species forms a comparatively small part of HI work since it has been amply demonstrated that very fruitful information can be obtained of the structure and interactions of stable molecules and their aggregates In addition to the spectroscopic methods mentioned above the MI technique is nowadays a standard method in research based on vibrational relaxation luminescence Mossbauer magnetic circular dichroism pulsed NMR and photoelectron spectroscopy The matrix isolation technique affords considerable advantages over more conventional methods in most applications of spectroscopy Areas where the technique has been widely applied or shows great potential include metal atom chemistry and its relation to surface chemistry high temperature inorganic species transition metal complexes interstellar species free radicals and unstable molecules conformational studies molecular complexes and intermolecular forces      Phonons in Condensed Materials, 2004 Papers presented at the

International Conference on Phonons in Condensed Materials held at Bhopal during 20-23 January 2003      **Defects and Defect Processes in Nonmetallic Solids** W. Hayes, A. M. Stoneham, 2012-02-10 This extensive survey covers defects in nonmetals emphasizing point defects and point defect processes It encompasses electronic vibrational and optical properties of defective solids plus dislocations and grain boundaries 1985 edition      Recent Developments in Condensed Matter Physics J. T. Devreese, 2012-12-06 These volumes contain the invited and contributed talks of the first general Conference of

the Condensed Matter Division of the European Physical Society which took place at the campus of the University of Antwerpen      **Introduction to Isotopic Materials Science** Vladimir G. Plekhanov, 2018-12-05 This book describes new trends in the nanoscience of isotopic materials science Assuming a background in graduate condensed matter physics and covering the fundamental aspects of isotopic materials science from the very beginning it equips readers to engage in high level professional research in this area The book's main objective is to provide insight into the question of why solids are the way they are either because of how their atoms are bonded with one another because of defects in their structure or because of how they are produced or processed Accordingly it explores the science of how atoms interact connects the results to real materials properties and demonstrates the engineering concepts that can be used to produce or improve semiconductors by design In addition it shows how the concepts discussed are applied in the laboratory The book addresses the needs of

researchers graduate students and senior undergraduate students alike Although primarily written for materials science

audience it will be equally useful to those teaching in electrical engineering materials science or even chemical engineering or physics curricula In order to maintain the focus on materials concepts however the book does not burden the reader with details of many of the derivations and equations nor does it delve into the details of electrical engineering topics



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