



Lattice Dynamics Of Crystal Surfaces

Giorgio Benedek



Lattice Dynamics Of Crystal Surfaces:

Lattice Dynamics of Crystal Surfaces, 1973* *Lattice Dynamics of Crystal Surfaces* Richard Fisher Wallis, 1973-01-01

Some Problems of Lattice Dynamics at Crystal Surfaces David Jung-Sung Cheng, 1976 **Lattice Dynamics of Crystals**

Surfaces R. F. Wallis, 1973 **Surface Phonons** Winfried Kress, Frederik W. de Wette, 2013-11-11 In recent years

substantial progress has been made in the detection of surface phonons owing to considerable improvements in inelastic rare gas scattering techniques and electron energy loss spectroscopy With these methods it has become possible to measure surface vibrations in a wide energy range for all wave vectors in the two dimensional Brillouin zone and thus to deduce the complete surface phonon dispersion curves Inelastic atomic beam scattering and electron energy loss spectroscopy have started to play a role in the study of surface phonons similar to the one played by inelastic neutron scattering in the investigation of bulk phonons in the last thirty years Detailed comparison between experimental results and theoretical studies of inelastic surface scattering and of surface phonons has now become feasible It is therefore possible to test and to improve the details of interaction models which have been worked out theoretically in the last few decades At this point we felt that a concise coherent and self contained guide to the rapidly growing field of surface phonons was needed

Phonons: Theory and Experiments II Peter Brüesch, 2012-12-06 The first part of this three volume treatment *Phonons Theory and Experiments 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 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 Dynamics on Surfaces A. Pullman, Joshua Jortner, Abraham Nitzan, Benjamin Gerber, 2012-12-06 Proceedings of the Seventeenth Jerusalem Symposium on Quantum Chemistry and Biochemistry Jerusalem Israel April 30 May 3 1984 *Surface and Interface Science, Volumes 1 and 2* Klaus Wandelt, 2012-04-16 Covering interface science from a novel surface science perspective this unique handbook offers a comprehensive overview of this burgeoning field Eight topical volumes cover basic concepts and methods elemental and

composite surfaces solid gas solid liquid and inorganic biological interfaces as well as applications of surface science in nanotechnology materials science and molecular electronics With its broad scope and clear structure it is ideal as a reference for scientists in the field as well as an introduction for newcomers Springer Handbook of Surface Science Mario Rocca,Talat Rahman,Luca Vattuone,2021-01-14 This handbook delivers an up to date comprehensive and authoritative coverage of the broad field of surface science encompassing a range of important materials such metals semiconductors insulators ultrathin films and supported nanoobjects Over 100 experts from all branches of experiment and theory review in 39 chapters all major aspects of solid state surfaces from basic principles to applications including the latest ground breaking research results Beginning with the fundamental background of kinetics and thermodynamics at surfaces the handbook leads the reader through the basics of crystallographic structures and electronic properties to the advanced topics at the forefront of current research These include but are not limited to novel applications in nanoelectronics nanomechanical devices plasmonics carbon films catalysis and biology The handbook is an ideal reference guide and instructional aid for a wide range of physicists chemists materials scientists and engineers active throughout academic and industrial research

Physisorption Kinetics Hans Jürgen Kreuzer,Zbigniew W. Gortel,2012-12-06 This monograph deals with the kinetics of adsorption and desorption of molecules physisorbed on solid surfaces Although frequent and detailed reference is made to experiment it is mainly concerned with the theory of the subject In this we have attempted to present a unified picture based on the master equation approach Physisorption kinetics is by no means a closed and mature subject rather in writing this monograph we intended to survey a field very much in flux to assess its achievements so far and to give a reasonable basis from which further developments can take off For this reason we have included many papers in the bibliography that are not referred to in the text but are of relevance to physisorption To keep this monograph to a reasonable size and also to allow for some unity in the presentation of the material we had to omit a number of topics related to physisorption kinetics We have not covered to any extent the equilibrium properties of physisorbed layers such as structures phase transitions and thermodynamic properties in general A number of excellent review articles listed in the bibliography cover this material Likewise little is said about scattering off solid surfaces this subject is again covered in several books and many review articles Lastly little is said about chemisorption kinetics for which microscopic theories and models have not been fully developed but are still at a rather early exploratory stage Vibrational Spectroscopy of Solids P. M. A.

Sherwood,1972-09-21 This 1972 monograph is devoted to the analysis and interpretation of the infrared and Raman spectra of solid compounds frequently used for their identification and characterization It was thought unsatisfactory to analyse such spectra by the theory applicable to gas phase samples though this was frequently done Furthermore the results obtained by far infrared and laser Raman spectrometers which detect the movement of atoms and or molecules as a whole had no gas phase analogy A separate approach to solid state vibrational spectra was therefore proposed within this volume Dr Sherwood

describes the solid state physics of vibrational spectroscopy and extends it to the more complex structures of low symmetry. He assumes an understanding of the infrared and Raman spectra of gases.

Electron Spectroscopy for Surface Analysis
H. Ibach, 2012-12-06 The development of surface physics and surface chemistry as a science is closely related to the technical development of a number of methods involving electrons either as an excitation source or as an emitted particle carrying characteristic information. Many of these various kinds of electron spectroscopies have become commercially available and have made their way into industrial laboratories. Others are still in an early stage but may become of increasing importance in the future. In this book an assessment of the various merits and possible drawbacks of the most frequently used electron spectroscopies is attempted. Emphasis is put on practical examples and experimental design rather than on theoretical considerations. The book addresses itself to the reader who wishes to know which electron spectroscopy or which combination of different electron spectroscopies he may choose for the particular problems under investigation. After a brief introduction the practical design of electron spectrometers and their figures of merit important for the different applications are discussed in Chapter 2. Chapter 3 deals with electron excited electron spectroscopies which are used for the elemental analysis of surfaces. Structure analysis by electron diffraction is described in Chapter 4 with special emphasis on the use of electron diffraction for the investigation of surface imperfections. For the application of electron diffraction to surface crystallography in general the reader is referred to Volume 4 of Topics in Applied Physics.

Interaction of Atoms and Molecules with Solid Surfaces
V. Bortolani, Norman H. March, Mario P. Tosi, 2013-11-22 There is considerable interest both fundamental and technological in the way atoms and molecules interact with solid surfaces. Thus the description of heterogeneous catalysis and other surface reactions requires a detailed understanding of molecule surface interactions. The primary aim of this volume is to provide fairly broad coverage of atoms and molecules in interaction with a variety of solid surfaces at a level suitable for graduate students and research workers in condensed matter physics, chemical physics and materials science. The book is intended for experimental workers with interests in basic theory and concepts and had its origins in a Spring College held at the International Centre for Theoretical Physics, Miramare, Trieste. Valuable background reading can be found in the graduate level introduction to the physics of solid surfaces by Zangwill 1 and in the earlier works by Garcia Moliner and Flores 2 and Somorjai 3. For specifically molecule surface interactions additional background can be found in Rhodin and Ertl 4 and March. S. V. Bortolani, N. H. March, M. P. Tosi. References: 1 A. Zangwill, *Physics at Surfaces*, Cambridge University Press, Cambridge, 1988; 2 F. Garcia Moliner and F. Flores, *Introduction to the Theory of Solid Surfaces*, Cambridge University Press, Cambridge, 1979; 3 G. A. Somorjai, *Chemistry in Two Dimensions: Surfaces*, Cornell University Press, Ithaca, New York, 1981; 4 T. N. Rhodin and G. Ertl, *The Nature of the Surface Chemical Bond*, North Holland, Amsterdam, 1979; 5 N. H. March, *Chemical Bonds outside Metal Surfaces*, Plenum Press, New York, 1986.

Progress in Surface and Membrane Science
J. F. Danielli, M. D. Rosenberg, D. A. Cadenhead, 2013-10-22 Progress in Surface and Membrane Science Volume 5

covers the developments in the study of surface and membrane science The book discusses the Mossbauer effect in surface science the surface functional groups on carbon and silica and the wetting phenomena pertaining to adhesion The text also describes the physical state of phospholipids and cholesterol in monolayers bilayers and membranes the characteristics of heterocoagulation and the effects of calcium on excitable membranes and neurotransmitter action Chemists physiologists biophysicists and civil engineers will find the book invaluable *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 science

Surface Properties of Layered Structures Giorgio Benedek,2012-12-06 Layered crystals characterized by a quasi two dimensional character of certain physical properties play an interesting role in surface science First of all they provide excellent inert substrates for epitaxial deposition and physisorption studies The surfaces of layered crystals however are interesting in their own right because they make a relevant class of low dimensional phenomena accessible to surface probes Change density waves incommensurate structures phonon anomalies and high T_c superconductivity are well known examples This book collects a series of review articles written by outstanding specialists on the structural assessment and spectroscopy of layered structures with surface sensitive probes such as scanning microscopy and helium atom scattering the theoretical

analysis of their electronic and vibrational surface states and the investigation of physisorbed overlayers *Dynamical Phenomena at Surfaces, Interfaces and Superlattices* Fabrizio Nizzoli, Manuel Cardona, Karl-Heinz Rieder, Roy F.

Willis, 2012-12-06 **Electron Energy Loss Spectroscopy and Surface Vibrations** H. Ibach, D. L. Mills, 2013-10-22

Electron Energy Loss Spectroscopy and Surface Vibrations is devoted to electron energy loss spectroscopy as a probe of the crystal surface. Electrons with energy in the range of a few electron volts sample only a few atomic layers. As they approach or exit from the crystal they interact with the vibrational modes of the crystal surface or possibly with other elementary excitations localized there. The energy spectrum of electrons back reflected from the surface is thus a rich source of information on its dynamics. The book opens with a detailed analysis of the physics that controls the operation of the monochromator which is the core of the experimental apparatus. Separate chapters follow on the interaction of electrons with vibrational modes of the surface region and with other elementary excitations in the vicinity of the lattice dynamics of clean and adsorbate covered surfaces with emphasis on those features of particular relevance to surface vibrational spectroscopy and selected applications. **Scientific and Technical Aerospace Reports**, 1991

Introduction to Structural Chemistry Stepan S. Batsanov, Andrei S. Batsanov, 2012-11-29 A concise description of models and quantitative parameters in structural chemistry and their interrelations with 280 tables and 3000 references giving the most up to date experimental data on energy characteristics of atoms, molecules and crystals: ionisation potentials, electron affinities, bond energies, heats of phase transitions, band and lattice energies, optical properties, refractive index, polarisability, spectroscopic characteristics and geometrical parameters: bond distances and angles, coordination numbers of substances in gaseous, liquid and solid states in glasses and melts for various thermodynamic conditions. Systems of metallic, covalent, ionic and van der Waals radii, effective atomic charges and other empirical and semi empirical models are critically revised. Special attention is given to new and growing areas: structural studies of solids under high pressures and van der Waals molecules in gases. The book is addressed to researchers, academics, postgraduates and advanced course students in crystallography, materials science, physical chemistry of solids.

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