



Modern Crystallography I (Springer Series in Solid-State Sciences)

Vainshtein, B. K.

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Modern Crystallography

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Tohyama, Stewart Edward
Barnes, Sumio Ishihara, Wataru
Koshibae, Giniyat Khaliullin**

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Modern Crystallography III A.A. Chernov, 2012-12-06 Early in this century the newly discovered x ray diffraction by crystals made a complete change in crystallography and in the whole science of the atomic structure of matter thus giving a new impetus to the development of solid state physics Crystallographic methods primarily x ray diffraction analysis penetrated into materials sciences molecular physics and chemistry and also into many other branches of science Later electron and neutron diffraction structure analyses became important since they not only complement x ray data but also supply new information on the atomic and the real structure of crystals Electron microscopy and other modern methods of investigating matter optical electronic paramagnetic nuclear magnetic and other resonance techniques yield a large amount of information on the atomic electronic and real crystal structures Crystal physics has also undergone vigorous development Many remarkable phenomena have been discovered in crystals and then found various practical applications Other important factors promoting the development of crystallography were the elaboration of the theory of crystal growth which brought crystallography closer to thermodynamics and physical chemistry and the development of the various methods of growing synthetic crystals dictated by practical needs Man made crystals became increasingly important for physical investigations and they rapidly invaded technology The production of synthetic crystals made a tremendous impact on the traditional branches the mechanical treatment of materials precision instrument making and the jewelry industry

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Modern Crystallography IV L.A.

Shuvalov,2012-12-06 Modern Crystallography IV is devoted to a systematic and up to date description of fundamental physical properties of solid and liquid crystals These include elastic and mechanical dielectric and ferroelectric magnetic and optical properties transport phenomena and spectroscopy An important feature of the treatment is its use of the crystallographic approach an introduction to which is given in the opening chapter of the book The topics are treated at a level understandable to students who have two years of university physics Researchers and engineers working on practical applications should also find the book useful as should specialists in other fields who wish to broaden their knowledge of crystallography and materials science The book is written by a group of leading scientists from the Institute of

Crystallography of the USSR Academy of Sciences

Modern Crystallography Boris Konstantinovich Vainshtein, A. A.

Chernov,1988 This book is dedicated to the 100th anniversary of the birth of Academician A V Shubnikov Chapters describe the theory of symmetry and its applications in actual problems of crystal physics including the structural analysis of crystals

Problems of crystal growth phase transitions and the physical properties of crystals. *Modern Crystallography II* Boris K. Vainshtein, V.M. Fridkin, V.L. Indenbom, 1982 Early in this century the newly discovered x ray diffraction by crystals made a complete change in crystallography and in the whole science of the atomic structure of matter thus giving a new impetus to the development of solid state physics Crystallographic methods primarily x ray diffraction analysis penetrated into materials sciences molecular physics and chemistry and also into many other branches of science Later electron and neutron diffraction structure analyses became important since they not only complement x ray data but also supply new information on the atomic and the real structure of crystals Electron microscopy and other modern methods of investigating matter optical electronic paramagnetic nuclear magnetic and other resonance techniques yield a large amount of information on the atomic electronic and real crystal structures Crystal physics has also undergone vigorous development Many remarkable phenomena have been discovered in crystals and then found various practical applications Other important factors promoting the development of crystallography were the elaboration of the theory of crystal growth which brought crystallography closer to thermodynamics and physical chemistry and the development of the various methods of growing synthetic crystals dictated by practical needs Man made crystals became increasingly important for physical investigations and they rapidly invaded technology The production of synthetic crystals made a tremendous impact on the traditional branches the mechanical treatment of materials precision instrument making and the jewelry industry

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engineers working on practical applications should also find the book useful as should specialists in other fields who wish to broaden their knowledge of crystallography and materials science The book is written by a group of leading scientists from the Institute of Crystallography of the USSR Academy of Sciences **Modern Crystallography III** A. A. Chernov, 1984

Modern Theory of Crystal Growth I A.A. Chernov, H. Müller-Krumbhaar, 2012-12-06 Our understanding of the basic processes of crystal growth has meanwhile reached the level of maturity at least in the phenomenological concepts This concerns for example the growth of pure crystals from a low density nutrient phase like vapor or dilute solution with various aspects of pattern formation like spiral and layer growth faceting and roughening and the stability of smooth macroscopic shapes as well as basic mechanisms of impurity incorporation in melt growth of in this sense simple materials like silicon or organic model substances In parallel the experimental techniques to quantitatively analyze the various growth mechanisms have also reached a high level of reproducibility and precision giving reliable tests on theoretical predictions These basic concepts and applications to experiments have been recently reviewed by one of us A A C in *Modern Crystallography III Crystal Growth* Springer Series on Solid State Sciences 1983 It has to be emphasized however that for practical applications we are still unable to quantitatively calculate many important parameters like kinetic coefficients from first principles For mixed systems such as complex oxides solutions and systems with chemical reactions our degree of understanding is even lower As a few examples for present achievements we note that experiments with vapour and molecular beam condensation of alkali halides confirmed the qualitatively predicted mechanisms of screw dislocations and two dimensional nucleation for layer growth *Our Celestial Clockwork: From Ancient Origins To Modern Astronomy Of The Solar System* Richard

Kerner, 2021-08-24 This book is a superposition of two distinct narratives the first is historical discussing the evolution of astronomical knowledge since the dawn of civilizations the second is scientific conveying mathematical and physical content of each advancement Great scientists of antiquity Middle Ages and modern times until the 18th century are presented along with their discoveries through short biographies and anecdotes Special care is taken to explain their achievements using mathematical and physical concepts of their time with modern perspective added only when ancient methodology is too cumbersome or its language hardly understandable to contemporary readers The book conveys a lot of astronomical facts and data in a pleasant and accessible manner Almost all findings and discoveries made in ancient times are followed by simple mathematical exercises using basic knowledge so that the reader can check the assertions himself The book contains a lot of inedited illustrations Geometrical schemes are given extra attention to make the examples clear and understandable The language is simple and accessible to the young audience **Modern Crystallography: Vainshtein, B. K. Symmetry of crystals. Methods of structural crystallography**, 1981 *The Quantum Hall Effect* Daijiro Yoshioka, 2013-03-09 Today more than 20 years after the discovery of the quantum Hall effect the number of publications in this field at more than one paper per day is still increasing This remarkable fact requires some explanation It also poses but perhaps also answers the

question of why a new monograph entitled *The Quantum Hall Effect* is a highly desirable addition to the literature Originally the quantum Hall effect QHE was a term coined to describe the unexpected observation of a fundamental electrical resistance with a value independent of the microscopic details of the semiconductor device The simplest explanation of this phenomenon was based on an independent electron picture The subsequent discovery of the fractional quantum Hall effect demonstrated that a many body wave function and a more global view of the system is necessary to incorporate and explain interesting new aspects Today the quantum Hall effect has become a pseudonym for many different phenomena observed in high magnetic fields with connections not only to solid state physics but also to theoretical descriptions in plasma physics astrophysics atomic physics and high energy physics There are even speculations that a higher dimensional generalization of the QHE may be useful for discussing questions related to the basic properties of space

Phase Separation in Soft Matter Physics Pulat K. Khabibullaev, Abdulla Saidov, 2013-04-17 This is the first monograph devoted to investigation of the most complex physical processes of soft systems including a wide class of solutions It blends modern theoretical understanding and experimental results proposing new methods and models for the description of several soft systems

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

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