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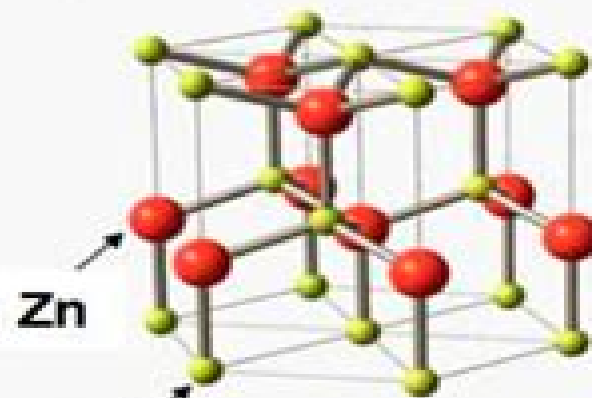
Rock-salt (NaCl)



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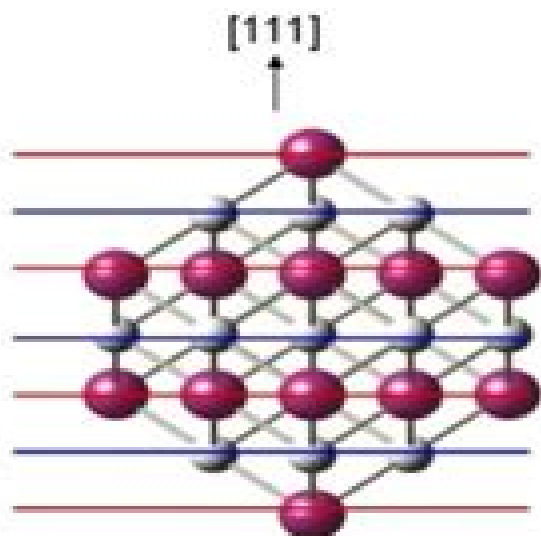
Zinc-blende



Zn

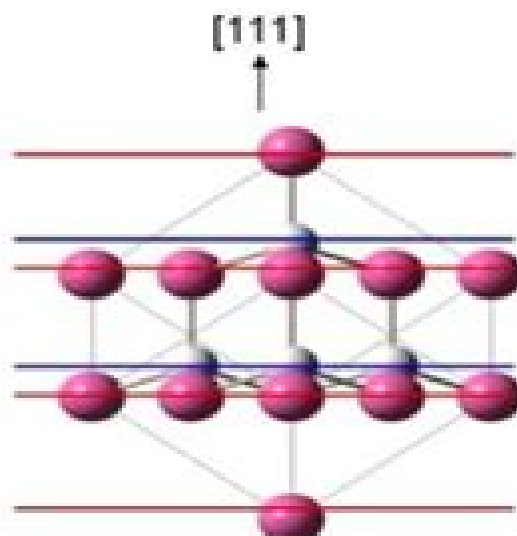
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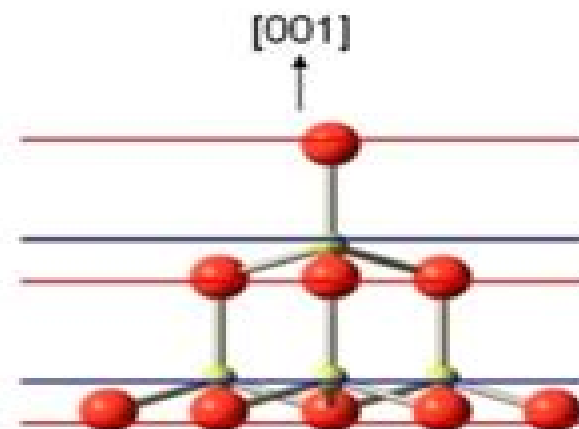
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Ferroelectricity In Crystals

**Robert Blinc,Igor Musevic,Bostjan
Zeks**



Ferroelectricity In Crystals:

Ferroelectricity in Crystals Helen D. Megaw, 1957 *Ferroelectric Materials and Ferroelectricity* T. F.

Connolly, 2013-11-11 This volume is a joint effort of the Research Materials Information Center RMIC of the Solid State Division at Oak Ridge National Laboratory and the Libraries and Information Systems Center at Bell Telephone Laboratories BTL Murray Hill N J The Research Materials Information Center has since 1963 been answering inquiries on the availability preparation and properties of inorganic solid state research materials The preparation of bibliographies has been essential to this function and the interest in ferroelectrics led to the compilation of the journal and report literature on that subject The 1962 book *Ferroelectric Crystals* by Jona and Shirane was taken as a cutoff point and all papers through mid 1969 received by the Center have been included The Libraries and Information Systems Center of BTL has over a period of years developed a proprietary package of computer programs called BELDEX which formats and generates indexes to bibliographic material This group therefore undertook to process RMIC's ferroelectric references by BELDEX so that both laboratories could have the benefit of an indexed basic bibliography in this important research area **Ferroelectric Phenomena in Crystals**

Boris A. Strukov, Arkadi P. Levanyuk, 2012-12-06 The expansion of the application of ferroelectric crystals in engineering as well as of a number of fundamental problems of solid state physics which have not yet been solved and which bear a direct relation to ferroelectricity has lately stimulated much interest in the problem of ferroelectricity In courses of solid state physics ferroelectricity is studied today along with traditional disciplines such as magnetism superconductivity and semiconducting phenomena Moreover new specialties have been born concerned directly with the development and utilization of ferroelectric material in optics acoustics computer technology and capacitor engineering Special courses in the physics of ferroelectrics are read in a number of colleges and universities The study of the nature of ferroelectricity has currently reached such a level of development that we may speak of having gained a rather deep insight into the physical essence of a number of phenomena which contribute to the generation of a spontaneous electric polarization in crystals It is exactly at this level that it has become possible to single out that part of the problem the physical picture of which can be depicted in a rather unsophisticated manner and which is the foundation for the construction of a building of complete understanding *Domains in Ferroic Crystals and Thin Films* Alexander Tagantsev, L. Eric Cross, Jan Fousek, 2010-04-28 At present the marketplace for professionals researchers and graduate students in solid state physics and materials science lacks a book that presents a comprehensive discussion of ferroelectrics and related materials in a form that is suitable for experimentalists and engineers This book proposes to present a wide coverage of domain related issues concerning these materials This coverage includes selected theoretical topics which are covered in the existing literature in addition to a plethora of experimental data which occupies over half of the book The book presents experimental findings and theoretical understanding of ferroic non magnetic domains developed during the past 60 years It addresses the situation by looking

specifically at bulk crystals and thin films with a particular focus on recently developed microelectronic applications and methods for observations of domains with techniques such as scanning force microscopy polarized light microscopy scanning optical microscopy electron microscopy and surface decorating techniques Domains in Ferroic Crystals and Thin Films covers a large area of material properties and effects connected with static and dynamic properties of domains which are extremely relevant to materials referred to as ferroics In other textbooks on solid state physics one large group of ferroics is customarily covered those in which magnetic properties play a dominant role Numerous books are specifically devoted to magnetic ferroics and cover a wide spectrum of magnetic domain phenomena In contrast Domains in Ferroic Crystals and Thin Films concentrates on domain related phenomena in nonmagnetic ferroics These materials are still inadequately represented in solid state physics textbooks and monographs

Crystal Structure of Electroceramics Stevin Snellius

Pramana,2018-04-03 This book is a printed edition of the Special Issue Crystal Structure of Electroceramics that was published in Crystals

The Physics Of Ferroelectric And Antiferroelectric Liquid Crystals Robert Blinc,Igor

Musevic,Bostjan Zeks,2000-07-25 This book presents the basic physics of ferroelectric and antiferroelectric liquid crystals in a simple and transparent way It treats both the basic and the applied aspects of ferroelectric and antiferroelectric liquid crystal research starting from the discovery of ferroelectricity in liquid crystals in 1975 and ending with the resonant X ray experiment in ferroelectric and antiferroelectric phases in 1998 Particular attention is paid to the optical properties electrooptic effects phase transitions and experimental methods used in liquid crystal research Special chapters are devoted to dielectric spectroscopy light scattering NMR STM and AFM in complex fluids The more than 300 illustrations help to present the basic physics of liquid crystalline ferroelectrics and antiferroelectrics in a way that can be easily followed by students engineers and scientists dealing with liquid crystal research

Metal Halide Perovskite Crystals: Growth

Techniques, Properties and Emerging Applications Wei Zhang,2019-01-31 This book is a printed edition of the Special Issue Metal Halide Perovskite Crystals Growth Techniques Properties and Emerging Applications that was published in Crystals

Ferroelectricity in Crystals Dr S Devanarayanan,2016-09-25 Ferroelectricity in crystals with preliminaries on

Crystallography Atomic Bonding Lattice Vibrations Specific heats of Solids Thermal Expansion of Crystals Defect in Crystals

Ferroelectric Crystals Franco Jona,G. Shirane,1962

Inelastic Light Scattering in Crystals Mikhail Mikhaïlovich

Sushchinskiĭ,1989 Translation from the 1987 Russia edition These proceedings address issues in solid state optics and physics Raman scattering in crystals and dispersive media Rayleigh and inelastic scattering with phase transitions the features of ferroelectrics in connection with the general concept of soft mod

Ferroelectric Liquid Crystals R. Blinc,1984

New Trends in Lyotropic Liquid Crystals

Ingo Dierking ,Antonio Martins Figueiredo Neto,2020-11-02 Liquid crystals LCs were discovered more than a century ago and were for a long time treated as a physical curiosity until the development of flat panel screens and display devices caused a revolution in the information display industry and in fact in society There

would be no mobile phones without liquid crystals no flat screen TVs or computer monitors no virtual reality just to name a few of the applications that have changed our whole world of vision and perception All of these inventions are based on liquid crystals that are formed through a change in temperature thermotropic LCs However there is another form of liquid crystals described even earlier yet much less talked about the lyotropic liquid crystals that occur through the change of concentration of some molecules in a solvent These are found in abundance in nature making up the cell membranes and are used extensively in the food detergents and cosmetics industries In this collection of articles by experts in their respective research areas we bring together some of the most recent and innovative aspects of lyotropic liquid crystals which we believe will drive future research and set novel trends in this field

Vibronic Interactions in Molecules and Crystals Isaac B. Bersuker, Victor Z. Polinger, 2012-12-06 Vibronic interaction effects constitute a new field of investigation in the physics and chemistry of molecules and crystals that combines all the phenomena and laws originating from the mixing of different electronic states by nuclear displacements This field is based on a new concept which goes beyond the separate descriptions of electronic and nuclear motions in the adiabatic approximation Publications on this topic often appear under the title of the Jahn-Teller effect although the area of application of the new approach is much wider the term vibronic interaction seems to be more appropriate to the field as a whole The present understanding of the subject was reached only recently during the last quarter of a century As a result of intensive development of the theory and experiment it was shown that the nonadiabatic mixing of close in energy electronic states under nuclear displacements and the back influence of the modified electronic structure on the nuclear dynamics result in a series of new effects in the properties of molecules and crystals The applications of the theory of vibronic in spectroscopy including visible ultraviolet interactions cover the full range infrared Raman EPR NMR nuclear quadrupole resonance NQR nuclear gamma resonance NMR photoelectron and x-ray spectroscopy polarizability and magnetic susceptibility scattering phenomena ideal and impurity crystal physics and chemistry including structural as well as ferroelectric phase transitions stereochemistry and instability of molecular including biological systems mechanisms of chemical reactions and catalysis

Ferroelectric Liquid Crystals J. W. Goodby, 1991 A textbook and reference for chemists physicists and electronic engineers synthesizing the current knowledge on ferroelectric liquid crystals which were discovered about 15 years ago and are now finding their first practical applications The comprehensive treatment covers an introduction to the family of crystals their general properties and structures the theory of ferroelectricity in liquid crystals chemical and electrical properties their behavior in electric and magnetic fields and applications Includes eight pages of well reproduced color plates Annotation copyrighted by Book News Inc Portland OR

Polar Dielectrics and Their Applications Jack C. Burfoot, George W. Taylor, 2023-07-28 This title is part of UC Press's Voices Revived program which commemorates University of California Press's mission to seek out and cultivate the brightest minds and give them voice reach and impact Drawing on a backlist dating to 1893 Voices Revived makes high quality peer reviewed

scholarship accessible once again using print on demand technology This title was originally published in 1979 **An Introduction to the Phenomenological Theory of Ferroelectricity** J. Grindlay, 2017-08-26 An Introduction to the Phenomenological Theory of Ferroelectricity covers topics about the basis and derivation of the macroscopic or phenomenological theory of the elastic dielectric and thermal properties of crystals as applied in the field of ferroelectricity The monograph discusses the elastic dielectric and thermal properties of ferroelectric crystals the standard linear time dependent electroelastic theory the non linear static properties of an elastic dielectric on a variational principle and the phenomenological theory of the static thermal elastic and dielectric properties of a homogeneous material The book also describes the theory of the static non linear behavior of an elastic dielectric as well as the phenomenological models for ferroelectricity Students taking physics courses and practicing physicists will find the book invaluable **U.S. Government Research Reports** ,1963 **CRC Handbook of Laser Science and Technology Supplement 2** Marvin J.

Weber, 1994-12-28 In the CRC Handbook of Laser Science and Technology Supplement 2 experts summarize the discovery and properties of new optical materials that have appeared since the publication of Volumes III V Included are the latest advances in optical crystals glasses and plastics laser host materials phase conjugation materials linear electrooptic materials nonlinear optical materials magneto optic materials elastooptic materials photorefractive materials liquid crystals and thin film coatings The book also includes expanded coverage of optical waveguide materials and new sections on optical liquids glass fiber lasers diamond optics and gradient index materials Appendices include Designation of Russian Optical Glasses Abbreviations Acronyms and Mineralogical or Common Names for Optical Materials and Abbreviations for Methods of Preparing Optical Materials Extensive tabulations of materials properties with references to the primary literature are provided throughout the supplement The CRC Handbook of Laser Science and Technology Supplement 2 represents the latest volume in the most comprehensive up to date listing of the properties of optical materials for lasers and laser systems making it an essential reference work for all scientists and engineers working in laser research and development

Technical Information Pilot , 1952 **Springer Handbook of Materials Data** Hans Warlimont, Werner Martienssen, 2018-07-27 The second edition of this well received handbook is the most concise yet comprehensive compilation of materials data The chapters provide succinct descriptions and summarize essential and reliable data for various types of materials The information is amply illustrated with 900 tables and 1050 figures selected primarily from well established data collections such as Landolt B r nstein which is now part of the SpringerMaterials database The new edition of the Springer Handbook of Materials Data starts by presenting the latest CODATA recommended values of the fundamental physical constants and provides comprehensive tables of the physical and physicochemical properties of the elements 25 chapters collect and summarize the most frequently used data and relationships for numerous metals nonmetallic materials functional materials and selected special structures such as liquid crystals and nanostructured materials Along with careful

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