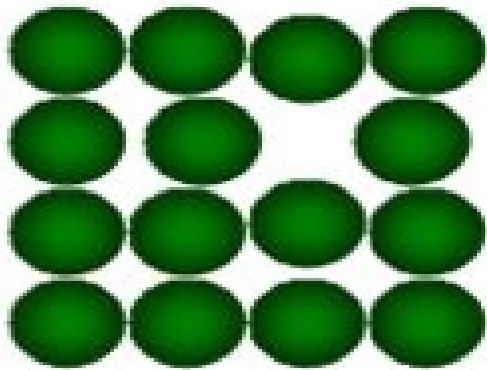
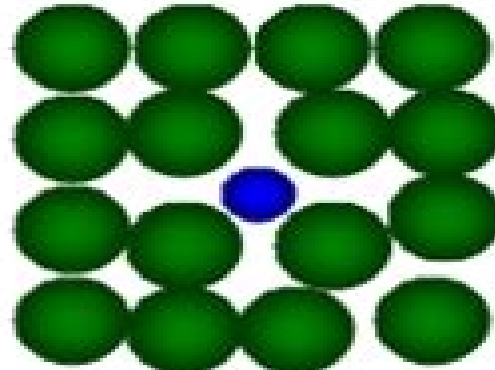


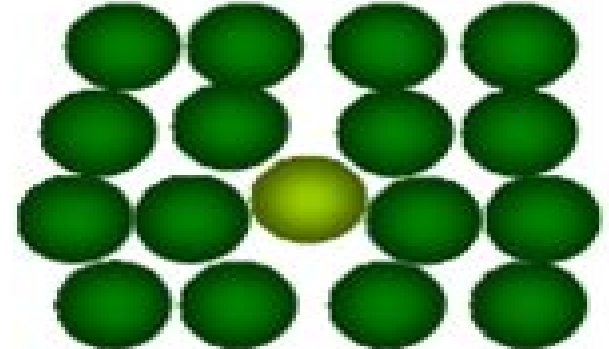
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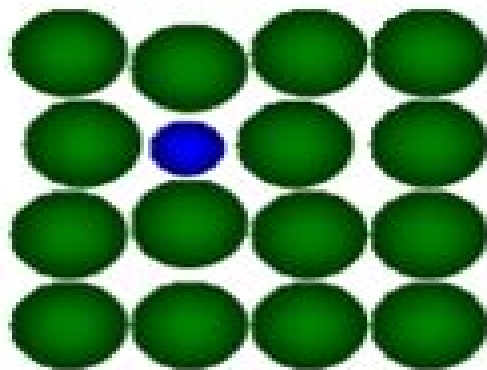
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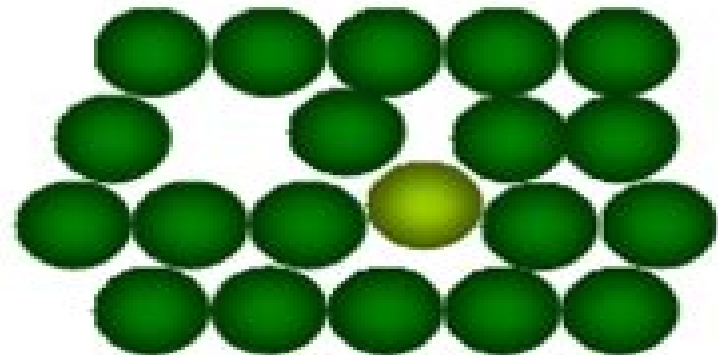
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Point Defects in Solids: Semiconductors and molecular crystals James Homer Crawford, Lawrence M. Slifkin, 1972

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Point Defects in Solids James H. Crawford, Lawrence M. Slifkin, 2012-12-06 Volume 1 of Point Defects in Solids has as its major emphasis defects in ionic solids Volume 2 now extends this emphasis to semiconductors The first four chapters treat in some detail the creation kinetic behavior interactions and physical properties of both simple and composite defects in a variety of semiconducting systems Also included as in Vol 1 are chapters on special topics namely phonon defect interactions and defects in organic crystals Defect behavior in semiconductors has been a subject of considerable interest since the discovery some twenty five years ago that fast neutron irradiation profoundly affected the electrical characteristics of germanium and silicon Present day interest has been stimulated by such semiconductor applications as solar cell power plants for space stations and satellites and semiconductor particle and gamma ray detectors since in both radiation damage can cause serious deterioration Of even greater practical concern is the need to understand particle damage in order to capitalize upon the developing technique of ion implantation as a means of device fabrication Although the periodic international conferences on radiation effects in semiconductors have served the valuable function of summarizing the extensive work being done in this field these proceedings are much too detailed and lack the background discussion needed to make them useful to the novice

Point Defects in Crystals R. K. Watts,

Point Defects in Crystals Roderick K. Watts, 1977

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Point Defects in Solids Lawrence M. Slifkin, 1972 Volume 1 of Point Defects in Solids has as its major emphasis defects in ionic solids Volume 2 now extends this emphasis to semiconductors The first four chapters treat in some detail the creation kinetic behavior interactions and physical properties of both simple and composite defects in a variety of semiconducting systems Also included as in Vol 1 are

chapters on special topics namely phonon defect interactions and defects in organic crystals Defect behavior in semiconductors has been a subject of considerable interest since the discovery some twenty five years ago that fast neutron irradiation profoundly affected the electrical characteristics of germanium and silicon Present day interest has been stimulated by such semiconductor applications as solar cell power plants for space stations and satellites and semiconductor particle and γ ray detectors since in both radiation damage can cause serious deterioration Of even greater practical concern is the need to understand particle damage in order to capitalize upon the developing technique of ion implantation as a means of device fabrication Although the periodic international conferences on radiation effects in semiconductors have served the valuable function of summarizing the extensive work being done in this field these proceedings are much too detailed and lack the background discussion needed to make them useful to the novice

An Introduction to Mineral Sciences A. Putnis, 1992-10-22 The subject of mineralogy is moving away from the traditional systematic treatment of mineral groups toward the study of the behaviour of minerals in relation to geological processes A knowledge of how minerals respond to a changing geological environment is fundamental to our understanding of many dynamic earth processes By adopting a materials science approach *An Introduction to Mineral Sciences* explains the principles underlying the modern study of minerals discussing the behaviour of crystalline materials with changes in temperature pressure and chemical environment The concepts required to understand mineral behaviour are often complex but are presented here in simple non mathematical terms for undergraduate mineralogy students After introductory chapters describing the principles of diffraction imaging and the spectroscopic methods used to study minerals the structure and behaviour of the main groups of rock forming minerals are covered and the role of defects in the deformation and transformation of a mineral are explained The energy changes and the rate of transformation processes are introduced using a descriptive approach rather than attempting a complete and rigorous treatment of the thermodynamics and kinetics Examples and case histories from a range of mineral groups are set in an earth science context such that the emphasis of this book is to allow the student to develop an intuitive understanding of the structural principles controlling the behaviour of minerals

Surface and Defect

Properties of Solids Meirion Wyn Roberts, J. M. Thomas, Annotation Specialist Periodical Reports provide systematic and detailed review coverage of progress in the major areas of chemical research Written by experts in their specialist fields the series creates a unique service for the active research chemist supplying regular critical in depth accounts of progress in particular areas of chemistry For over 90 years The Royal Society of Chemistry and its predecessor the Chemical Society have been publishing reports charting developments in chemistry which originally took the form of Annual Reports However by 1967 the whole spectrum of chemistry could no longer be contained within one volume and the series Specialist Periodical Reports was born The Annual Reports themselves still existed but were divided into two and subsequently three volumes covering Inorganic Organic and Physical Chemistry For more general coverage of the highlights in chemistry they remain a

must Since that time the SPR series has altered according to the fluctuating degree of activity in various fields of chemistry Some titles have remained unchanged while others have altered their emphasis along with their titles some have been combined under a new name whereas others have had to be discontinued The current list of Specialist Periodical Reports can be seen on the inside flap of this volume Crystals, Defects and Microstructures Rob Phillips,2001-02-22 Materials science has emerged as one of the central pillars of the modern physical sciences and engineering and is now even beginning to claim a role in the biological sciences A central tenet in the analysis of materials is the structure property paradigm which proposes a direct connection between the geometric structures within a material and its properties The increasing power of high speed computation has had a major impact on theoretical materials science and has permitted the systematic examination of this connection between structure and properties The Theory of Point Defects in Crystals I. D. Faux,1971

Site Symmetry in Crystals Robert A. Evarestov,Vyacheslav P. Smirnov,2012-12-06 Site Symmetry in Crystals is the first comprehensive account of the group theoretical aspects of the site local symmetry approach to the study of crystalline solids The efficiency of this approach which is based on the concepts of simple induced and band representations of space groups is demonstrated by considering newly developed applications to electron surface states point defects symmetry analysis in lattice dynamics the theory of second order phase transitions and magnetically ordered and non rigid crystals Tables of simple induced representations are given for the 24 most common space groups allowing the rapid analysis of electron and phonon states in complex crystals with many atoms in the unit cell **Crystallography and Crystal Defects** Anthony Kelly,Kevin M. Knowles,2020-06-02 The classic book that presents a unified approach to crystallography and the defects found within crystals revised and updated This new edition of Crystallography and Crystal Defects explains the modern concepts of crystallography in a clear succinct manner and shows how to apply these concepts in the analyses of point line and planar defects in crystalline materials Fully revised and updated this book now includes Original source references to key crystallographic terms familiar to materials scientists Expanded discussion on the elasticity of cubic materials New content on texture that contains more detail on Euler angles orientation distribution functions and an expanded discussion on examples of textures in engineering materials Additional content on dislocations in materials of symmetry lower than cubic An expanded discussion of twinning which includes the description and classification of growth twins The inclusion and explanation of results from atomistic modelling of twin boundaries Problem sets with new questions detailed worked solutions supplementary lecture material and online computer programs for crystallographic calculations Written by authors with extensive lecturing experience at undergraduate level Crystallography and Crystal Defects Third Edition continues to take its place as the core text on the topic and provides the essential resource for students and researchers in metallurgy materials science physics chemistry electrical civil and mechanical engineering Crystal Defects and Crystalline Interfaces Walter Bollmann,2012-12-06 It is nonnal for the preface to explain the motivation behind the writing of the book Since many

good books dealing with the general theory of crystal defects already exist a new book has to be especially justified and here its main justification lies in its treatment of crystal line interfaces About 1961 the work of the author essentially based on the fundamental work of Professor F C Frank started to branch away from the main flow of thought in this field and eventually led to a general geometrical theory which is presented as a whole for the first time in this book Although nearly all that is presented has already been published in different journals and symposia it might be difficult for the reader to follow that literature as a new terminology and new methods of analysis had to be developed Special emphasis is given to discussion and many diagrams are included in order that a clear view of the basic concepts be obtained Intermediate summaries try to bring out the main points of the chapters Instead of specific exercises general suggestions for them are given The part up to chapter 9 is considered more or less as introductory so that the book can be studied without specific knowledge of crystals and crystal defects The presentation of that part developed out of lectures given by the author at the Swiss Federal Institute of Technology ETH in Zurich

Physics of Elasticity and Crystal Defects Adrian P. Sutton, 2024-03-28 Properties of crystalline materials are almost always governed by the defects within them The ability to shape metals and alloys into girders furniture automobiles and medical prostheses stems from the generation motion and interaction of these defects Crystal defects are also the agents of chemical changes within crystals enabling mass transport by diffusion and changes of phase The distortion of the crystal created by a defect enables it to interact with other defects over distances much greater than the atomic scale The theory of elasticity is used to describe these interactions **Physics of Elasticity and Crystal Defects** 2nd Edition is an introduction to the theory of elasticity and its application to point defects dislocations grain boundaries inclusions and cracks A unique feature of the book is the treatment of the relationship between the atomic structures of defects and their elastic fields Another unique feature is the last chapter which describes five technologically important areas requiring further fundamental research with suggestions for possible PhD projects There are exercises for the student to check their understanding as they work through each chapter with detailed solutions There are problems set at the end of each chapter also with detailed solutions In this second edition the treatment of the Eshelby inclusion has been expanded into a chapter of its own with complete self contained derivations of the elastic fields inside and outside the inclusion This is a textbook for postgraduate students in physics engineering and materials science Even students and professionals with some knowledge of elasticity and defects will almost certainly find much that is new to them in this book

Physics of Radiation Effects in Crystals R.A. Johnson, A.N. Orlov, 2012-12-02 **Physics of Radiation Effects in Crystals** is presented in two parts The first part covers the general background and theory of radiation effects in crystals including the theory describing the generation of crystal lattice defects by radiation the kinetic approach to the study of the disposition of these defects and the effects of the diffusion of these defects on alloy compositions and phases Specific problems of current interest are treated in the second part and include anisotropic dimensional changes in uranium zirconium and graphite

acceleration of thermal creep in reactor materials and radiation damage of semiconductors and superconductors
of the Lattice Dynamics of Point Defects in Crystals D. Healey, 1967

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