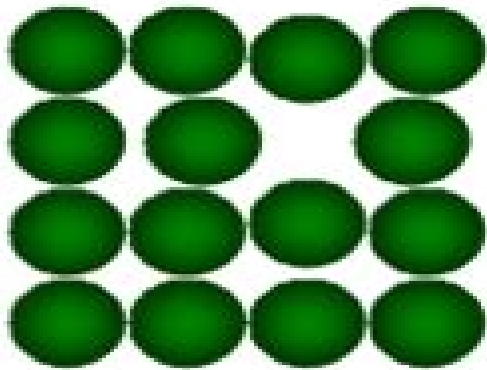
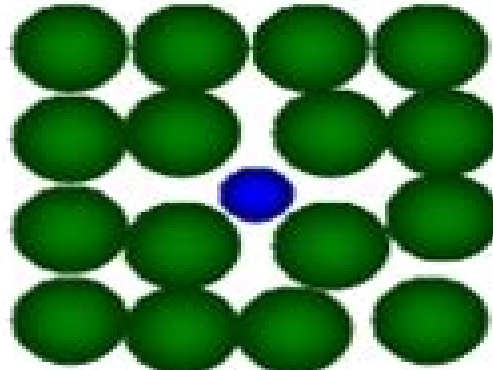


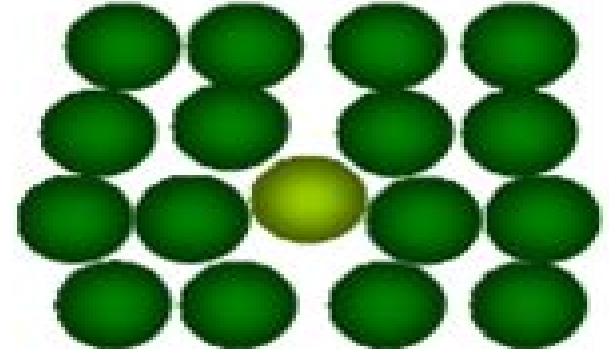
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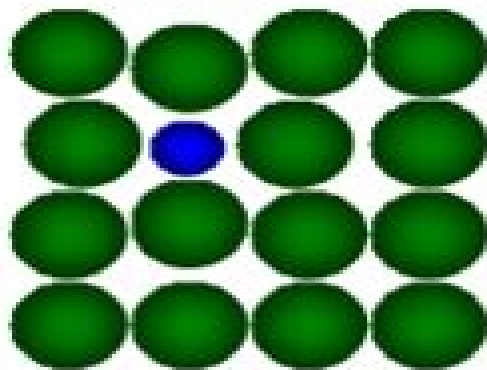
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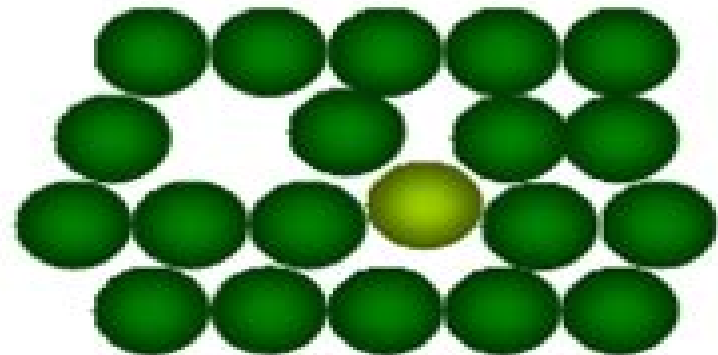
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Self-interstitial



Substitution impurity



Frenkel defect

Point Defects In Crystals

R.K. Watts



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

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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

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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

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much that is new to them in this book *Imperfections in Crystalline Solids* Wei Cai, William D. Nix, 2016-09-15 This textbook provides students with a complete working knowledge of the properties of imperfections in crystalline solids. Readers will learn how to apply the fundamental principles of mechanics and thermodynamics to defect properties in materials science, gaining all the knowledge and tools needed to put this into practice in their own research. Beginning with an introduction to defects and a brief review of basic elasticity theory and statistical thermodynamics, the authors go on to guide the reader in a step by step way through point, line and planar defects with an emphasis on their structural, thermodynamic and kinetic properties. Numerous end of chapter exercises enable students to put their knowledge into practice and with solutions for instructors and MATLAB programs available online, this is an essential text for advanced undergraduate and introductory graduate courses in crystal defects as well as being ideal for self study.

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.

Aspects of the Lattice Dynamics of Point Defects in Crystals D. Healey, 1967

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Point Defects In Crystals Introduction

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