

Defects in Crystalline Solids

Defects

Macroscopic
Pores, holes, cracks,
pipe, shrinkage cavity

Microscopic
Dislocation, twins,
kink/jog, faults, boundary

Energtics of point defects:

$$N_V = N_O \exp(-\frac{\Delta H_V}{kT})$$

where, ΔH_V = enthalpy of vacancy formation, T = temperature (K), k = Boltzman's constant

Point defects in ionic compounds:

M - cation sub-lattice, X - anion sublattice

- M_v = M_i or, X_v = X_i (Frenkel).
- M_v = X_v (Schottky, no interstitial.
- M_i = X_i, no vacancy.
- 4. Substitutional disorder between M and X.

FCC: ABCABC

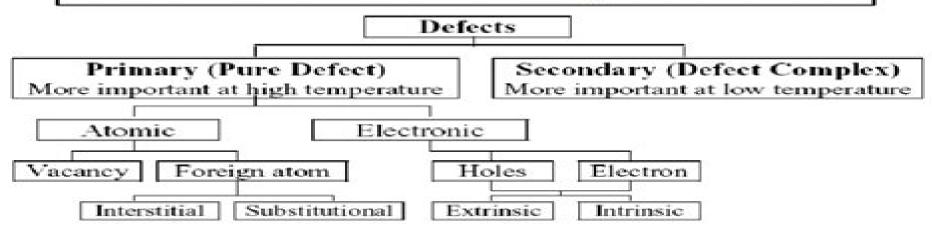


HCP: ABABAB

Foreign atoms in a crystal:

(a) Interstitial, and (b) Substitutional

Classification of Defects in Crystalline Solids



Defects (dimension wise)

Defects In Crystalline Solids

Wei Cai, William D. Nix

Defects In Crystalline Solids:

Defects in Crystalline Solids B. Henderson, 1972 **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 **Solids** James H. Crawford, Lawrence M. Slifkin, 2013-03-09 Crystal defects can no longer be thought of as a scientific curiosity but must be considered an important aspect of solid state science This is largely because many of the more interesting properties of crystalline solids are disproportionately dominated by effects due to a tiny concentration of imperfections in an otherwise perfect lattice. The physics of such lattice defects is not only of significance in a great variety of applications but is also interesting in its own right Thus an extensive science of point defects and dislocations has been constructed during the past two and a half decades Stimulated by the technological and scientific interest in plasticity there have appeared in recent years rather a large number of books dealing with dislocations in the case of point defects however only very few broad and extensive treatments have been published. Thus there are few compre hensive tutorial sources for the scientist or engineer whose research ac tivities are affected by point defect phenomena or who might wish to enter the field It is partially to fill this need that the present treatise aims **Defects in Crystalline Solids. Report of the** Conference on Defects in Crystalline Solids Held at the H.H. Wills Physical Laboratory, University of Bristol, July 1954. [With Plates.]. Conference on Defects in Crystalline Solids (BRISTOL),1955 Defects and Disorder in Crystalline and Amorphous Solids Richard Catlow, 2012-12-06 The study of defects and disorder in solids remains a central topic in solid state science Developments in the field continue to be promoted by new experimental and theoretical techniques while further impetus for the study of disorder in solids is provided by the growing range of applications of solid state materials in which disorder at the atomic level plays a crucial rOle In this book we attempt to present a survey of fundamental and applied aspects of the field We consider the basic aspects of defective crystalline and amorphous solids We discuss recent studies of structural electronic transport thermodynamic and spectroscopic properties of such materials Experimental and theoretical methodologies are reviewed and detailed consideration is given to materials such as fast ion conductors and amorphous semiconductors that are of importance in an applied context Any survey of this large field is necessarily selective

We have chosen to emphasise insulating especially oxidic and semi conducting materials But many of the approaches and techniques we describe apply generally across the entire field of solid state science This volume is based on a NATO ASI held at the Residencia Santa Teresa de Jesus Madrid in September 1991 The Editor is grateful to the NATO Scientific Affairs Division for their sponsorship of this School Thanks are also due to all who participated in and lectured at the school but especially to the organising committee of A V Chadwick G N Greaves M Grigorkiewicz J H Harding and S Kalbitzer C R A Defects in Crystalline Solids ,1955 **Defects in Crystalline Solids** B. Henderson, 1972 **Point Defects in Solids** James H. Crawford, Lawrence M. Slifkin, 2014-09-01 Defects in Crystalline Solids Physical Society (Great Britain), 1955 Internal Friction of Structural Defects in Crystalline Solids R. de Batist,1973 Defects in Crystalline Solids Series **Defects in Solids** Richard J. D. Tilley, 2008-10-10 Provides a thorough understanding of the chemistry and physics ,1968 of defects enabling the reader to manipulate them in the engineering of materials Reinforces theoretical concepts by placing emphasis on real world processes and applications Includes two kinds of end of chapter problems multiple choice to test knowledge of terms and principles and more extensive exercises and calculations to build skills and understanding Supplementary material on crystallography and band structure are included in separate appendices Imperfections in Crystalline Solids Wei Cai, William D. Nix, 2016-09-15 An accessible textbook providing students with a working knowledge of the properties of defects in crystals in a step by step tutorial style Defects in crystalline solids S. Amelinckx, 1968 **Defects in Crystalline Solids** ,1955 Stability and Regularity of Defects in Crystalline Solids Thomas Hudson, 2014 **Defects in Crystalline Solids** ,1955 Defects in Crystalline Solids: Report of the Conference, 1955 Defects in crystalline solids: report of the Conference on Defects in Crystalline Solids held at the H. H. Wills Physical Laboratory, University of Bristol; July 1954 Conference on Defects in Crystalline Solids, 1955 Defects in crystalline solids Physical Society, 1955

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