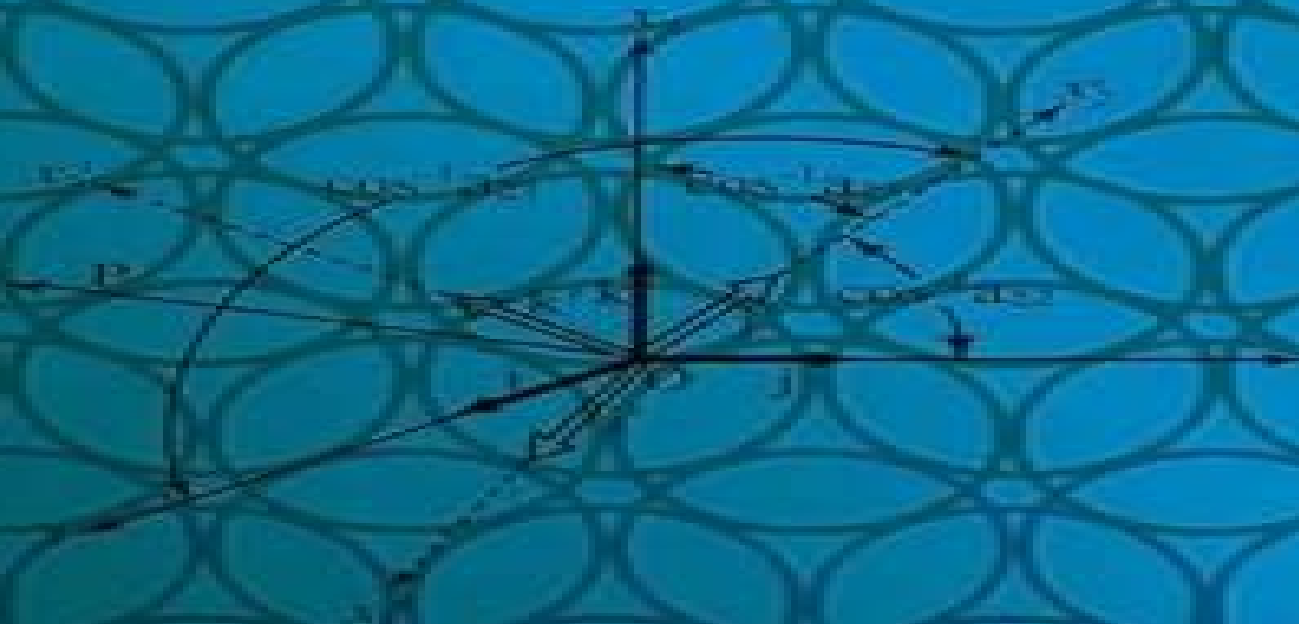




CRYSTALLOGRAPHY and CRYSTAL DEFECTS

Revised Edition



A. Kelly, G. W. Groves and P. Kidd

Crystallography And Crystal Defects

R. C. Newman



Crystallography And Crystal Defects:

Crystallography and Crystal Defects Anthony Kelly, G. W. Groves, P. Kidd, 2000-04-17 Crystallography and Crystal Defects Revised Edition A Kelly Churchill College Cambridge UK G W Groves Exeter College Oxford UK and P Kidd Queen Mary and Westfield College University of London UK The concepts of crystallography are introduced here in such a way that the physical properties of crystals including their mechanical behaviour can be better understood and quantified A unique approach to the treatment of crystals and their defects is taken in that the often separate disciplines of crystallography tensor analysis elasticity and dislocation theory are combined in such a way as to equip materials scientists with knowledge of all the basic principles required to interpret data from their experiments This is a revised and updated version of the widely acclaimed book by Kelly and Groves that was first published nearly thirty years ago The material remains timely and relevant and the first edition still holds an unrivalled position at the core of the teaching of crystallography and crystal defects today Undergraduate readers will acquire a rigorous grounding from first principles in the crystal classes and the concept of a lattice and its defects and their descriptions using vectors Researchers will find here all the theorems of crystal structure upon which to base their work and the equations necessary for calculating interplanar spacings transformation of indices and manipulations involving the stereographic projection and transformations of tensors and matrices

Crystallography and Crystal Defects Anthony Kelly, **Ionic Crystals, Lattice Defects and Nonstoichiometry** Norman Neill Greenwood, 1968 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 Intennediate 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

Autumn School Crystallography of Interfaces and Crystal Defects Autumn School Crystallography of Interfaces and Crystal Defects (1995, Güntersberge), Deutsche Gesellschaft für Kristallographie. Arbeitskreis Theoretische Kristallographie, 1995 Defects in Crystalline Solids B. Henderson, 1972 **Elastic Models of Crystal Defects** Cristian

Teodosiu,2014-01-15 **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

Infra-red Studies of Crystal Defects R. C. Newman,1873
 Introduction To Elasticity Theory For Crystal Defects (Second Edition) Robert W Balluffi,2016-08-25 The book presents a unified and self sufficient and reader friendly introduction to the anisotropic elasticity theory necessary to model a wide range of point line planar and volume type crystal defects e g vacancies dislocations interfaces inhomogeneities and inclusions The necessary elasticity theory is first developed along with basic methods for obtaining solutions This is followed by a detailed treatment of each defect type Included are analyses of their elastic fields and energies their interactions with imposed stresses and image stresses and the interactions that occur between them all employing the basic methods introduced earlier All results are derived in full with intermediate steps shown and it can be shown is avoided A particular effort is made to describe and compare different methods of solving important problems Numerous exercises with solutions are provided to strengthen the reader s understanding and extend the immediate text In the 2nd edition an additional chapter has been added which treats the important topic of the self forces that are experienced by defects that are extended in more than one dimension A considerable number of exercises have been added which expand the scope of the book and furnish further insights Numerous sections of the book have been rewritten to provide additional clarity and scope The major aim of the book is to provide in one place a unique and complete introduction to the anisotropic theory of elasticity for defects written in a manner suitable for both students and professionals

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

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

Imperfections in Crystals Hendrik Gerard Bueren, 1960 **Point Defects in 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 comprehensive tutorial sources for the scientist or engineer whose research activities 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 Solids Richard J. D. Tilley, 2008-10-10 Provides a thorough understanding of the chemistry and physics 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

Thesaurus of Engineering and Scientific Terms Engineers Joint Council, 1967 **Defect Crystal Chemistry and Its Applications** R. J. D. Tilley, 1987 **DDC Retrieval and Indexing Terminology** Defense Documentation Center (U.S.), 1975 **Introduction to Crystal Growth and Characterization** Klaus-Werner

Benz, Wolfgang Neumann, 2014-07-28 This new textbook provides for the first time a comprehensive treatment of the basics of contemporary crystallography and crystal growth in a single volume The reader will be familiarized with the concepts for the description of morphological and structural symmetry of crystals The architecture of crystal structures of selected inorganic and molecular crystals is illustrated The main crystallographic databases as data sources of crystal structures are described Nucleation processes their kinetics and main growth mechanism will be introduced in fundamentals of crystal growth Some phase diagrams in the solid and liquid phases in correlation with the segregation of dopants are treated on a macro and microscale Fluid dynamic aspects with different types of convection in melts and solutions are discussed Various growth techniques for semiconducting materials in connection with the use of external field magnetic fields and microgravity are described Crystal characterization as the overall assessment of the grown crystal is treated in detail with respect to crystal defects crystal quality field of application Introduction to Crystal Growth and Characterization is an ideal textbook written in a form readily accessible to undergraduate and graduate students of crystallography physics chemistry materials science and engineering It is also a valuable resource for all scientists concerned with crystal growth and materials engineering **NASA Thesaurus** ,1988

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