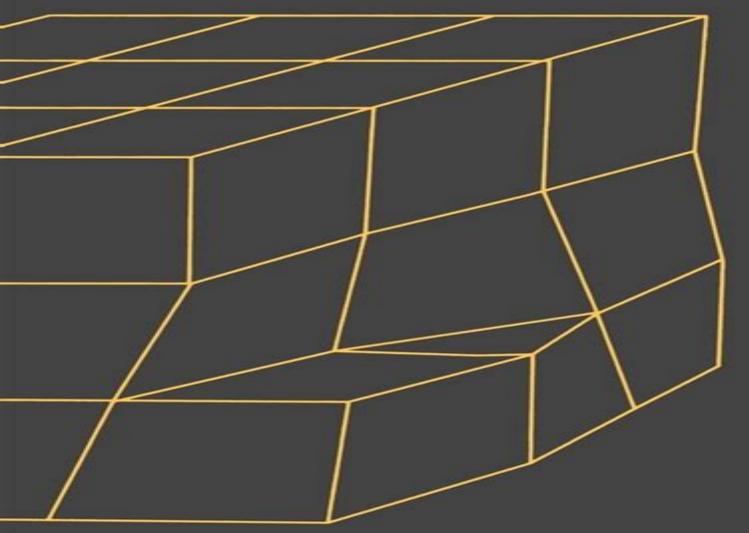
Elementary Dislocation Theory



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Elementary Dislocation Theory:

Elementary Dislocation Theory Johannes Weertman, Julia Randall Weertman, 1964 **Elementary dislocation** theory. (Third printing.). Johannes WEERTMAN (and WEERTMAN (Julia Randall)), 1966 Fundamental Aspects of Theory of Dislocations Peter M. Anderson, John Dislocation Theory John Arthur Simmons, Roland De Wit, R. Bullough, 1970 P. Hirth, Jens Lothe, 2017-01-16 This book provides a comprehensive understanding of the nucleation motion and interaction Generalized Continua and Dislocation Theory Carlo between crystalline defects called dislocations Sansour. Sebastian Skatulla, 2012-05-27 Defects dislocations and the general theory Approaches to generalized continua Generalized continuum modelling of crystal plasticity Introduction to discrete dislocation dynamics The book contains four lectures on generalized continua and dislocation theory reflecting the treatment of the subject at different scales G Maugin provides a continuum formulation of defects at the heart of which lies the notion of the material configuration and the material driving forces of in homogeneities such as dislocations disclinations point defects cracks phase transition fronts and shock waves C Sansour and S Skatulla start with a compact treatment of linear transformation groups with subsequent excursion into the continuum theory of generalized continua After a critical assessment a unified framework of the same is presented The next contribution by S Forest gives an account on generalized crystal plasticity Finally H Zbib provides an account of dislocation dynamics and illustrates its fundamental importance at the smallest scale In three contributions extensive computational results of many examples are presented **Dislocation Theory for Engineers** Roy Faulkner, 2000 This book covers the application of elementary dislocation theory to the behaviour of crystalline materials The book complements and is complemented by Worked examples in dislocations by M J Whelan Classical Theory Of Crystal **Dislocations: From Iron To Gallium Nitride** Hiroyasu Saka, 2017-09-11 The book consists of two parts Part 1 is a standard text of dislocation theory Mathematics is avoided as much as possible Part 2 describes application of dislocation theory which includes mechanical properties including the inverse temperature dependence of strength and dislocations in functional materials such as Si GaN and SiC and dislocations in a thin crystal such as an epitaxial layer This is what has been long anticipated among researchers in industry The book contains about 330 illustrations mostly originals by the author and the pictures obtained by the author by means of in situ experiment in a transmission electron microscope over the past 50 years This book includes many exercises which the author found useful when he was teaching in Department of Materials Science and Engineering of Nagoya University to stimulate their interests in dislocation theory **Introduction to Dislocations** Derek Hull, D. J. Bacon, 2001-07-02 Introduction to Dislocations was first published in 1965 in a series aimed at undergraduate and postgraduate students in metallurgy and materials science and related disciplines At the time the subject was maturing and it was expected that dislocation concepts would remain a core discipline for a very long time As expected the book has been and remains an important undergraduate text all over the world A wider range of materials has emerged

since 1965 most notably in the field of electronics and micro engineering The principles of dislocation theory still apply but some of the detail requires further treatment This fourth edition provides an essential basis for an understanding of many of the physical and mechanical properties of crystalline solids This new edition has been extensively revised and updated to reflect developments in the understanding of the subject whilst retaining the clarity and comprehensibility of the previous Dislocation Based Fracture Mechanics Johannes Weertman, 1996 The dislocation is the basic building block of editions the crack in an elastic plastic solid Fracture mechanics is developed in this text from its dislocation foundation It is the only text to do so It is written for the graduate student and the new investigator entering the fracture field as well as the experienced scientist who has not used the dislocation approach The dislocation mechanics needed to find the dislocation density fields of crack tip plastic zones is developed in detail All known dislocation based solutions are given for the three types of cracks in elastic plastic solids are given *Introduction to Geometrically Nonlinear Continuum Dislocation Theory* Christian B. Silbermann, Matthias Baitsch, Jörn Ihlemann, 2021-03-02 This book provides an introduction to geometrically non linear single crystal plasticity with continuously distributed dislocations A symbolic tensor notation is used to focus on the physics The book also shows the implementation of the theory into the finite element method Moreover a simple simulation example demonstrates the capability of the theory to describe the emergence of planar lattice defects subgrain boundaries and introduces characteristics of pattern forming systems Numerical challenges involved in the localization phenomena are discussed in detail Applications of Dislocation Theory to Upper-mantle Deformation Chapman Young (III.), 1966

Theory of Dislocations Peter M. Anderson, John P. Hirth, Jens Lothe, 2017-01-16 Theory of Dislocations provides unparalleled coverage of the fundamentals of dislocation theory with applications to specific metal and ionic crystals Rather than citing final results step by step developments are provided to offer an in depth understanding of the topic The text provides the solid theoretical foundation for researchers to develop modeling and computational approaches to discrete dislocation plasticity yet it covers important experimental observations related to the effects of crystal structure temperature nucleation mechanisms and specific systems This new edition incorporates significant advances in theory experimental observations of dislocations and new findings from first principles and atomistic treatments of dislocations Also included are new discussions on thin films deformation in nanostructured systems and connection to crystal plasticity and strain gradient continuum formulations Several new computer programs and worked problems allow the reader to understand visualize and implement dislocation theory concepts

Dislocation Modelling of Physical Systems M.F. Ashby, R. Bullough, C.S. Hartley, 2013-10-22 Dislocation Modelling of Physical Systems contains the Proceedings of the International Conference held at Gainesville Florida USA on June 22 27 1980 The book emphasizes the growing interest in relating dislocation theoretic concepts to engineering problems Topic areas chosen ranged from the fundamental such as properties of single dislocations to the more applied such as fracture The papers are grouped specifically based on the main topics they discuss These topics

include fracture point defects and dislocations structure dependence of mechanical behavior properties of single dislocations plasticity and geometry of deformation internal friction effects and boundaries Crystallography and Crystal Defects Anthony Kelly, Kevin M. Knowles, 2012-02-13 Extensively revised and updated this new edition of a classic text presents a unified approach to crystallography and to the defects found within crystals The book combines the classical and exact description of symmetry of a perfect crystal with the possible geometries of the major defects dislocations stacking faults point defects twins interfaces and the effects of martensitic transformations A number of important concepts and exciting new topics have been introduced in this second edition including piezoelectricity liquid crystals nanocrystalline concepts incommensurate materials and the structure of foamed and amorphous solids The coverage of quasicrystalline materials has been extended and the data tables appendices and references have been fully updated Reinforcing its unrivalled position as the core text for teaching crystallography and crystal defects each chapter includes problem sets with brief numerical solutions at the end of the book Detailed worked solutions supplementary lecture material and computer programs for crystallographic calculations are provided online http booksupport wiley com **Theory of Dislocations** John Price Hirth, Jens Lothe, 1992 Presents a comprehensive treatment of the fundamentals of dislocations This book covers the elastic theory of straight and curved dislocations and includes a chapter on elastic anisotropy. It also presents applications to the Mechanical Behavior of Crystalline theory of dislocation motion at low and high temperatures NBS Monograph ,1963 Mechanical Behavior of Materials William F. Hosford, 2010 This is a textbook on the mechanical behavior Solids ,1963 of materials for mechanical and materials engineering It emphasizes quantitative problem solving This new edition includes treatment of the effects of texture on properties and microstructure in Chapter 7 a new chapter 12 on discontinuous and inhomogeneous deformation and treatment of foams in Chapter 21 Stress and Strain in Epitaxy: Theoretical Concepts, Measurements and Applications J.-P. Deville, M. Hanbücken, 2001-07-03 This book contains keynote lectures which have been delivered at the 3rd Porquerolles School on Surface Science SIR2000 Surfaces Interfaces Relaxation The aim of this school was to review the main concepts necessary to understand the role of interfacial stress strain and relaxation in crystal growth by heteroepitaxy By bringing together scientists from various fields physics chemistry materials science and engineering which daily use complementary methodological approaches experiment theory modelization the school allowed to offer 11 multidisciplinary courses This book addresses the state of art of stress in epitaxial materials it describes the various methods to measure the atomic displacement and stress fields it reviews the spectroscopic methods necessary to map the interface chemistry it details the theoretical methods and concepts which are needed to predict them and it questions the fact that stress and relaxation can induce specific properties in magnetism catalysis electron transport and so on The field of stress and strain in heteroepitaxy has know large developments during the last ten years New techniques have been used to set up new devices in which functionalities are obtained through structuration at a nanometer scale Large scale integration and

reduced dimensions are the key factors to optimize the achievements of these devices Already used in industry quantum wells magnetic sensors these devices are obtained by molecular beam epitaxy sputtering or pulsed laser deposition Their reduced dimensionality increased the number of surfaces and interfaces the role of which has to be precised Experimentalists try now to associate materials having very different crystal structure and chemical composition The elastic stress stored in the device can induce various phenomena which have to be evaluated understood and predicted The book intends also to show that many questions are still in debate **Project Neos; a Generalized Study of Processes for the Realization of Esign Configurations in Materials** Paul Rosenthal,1964

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