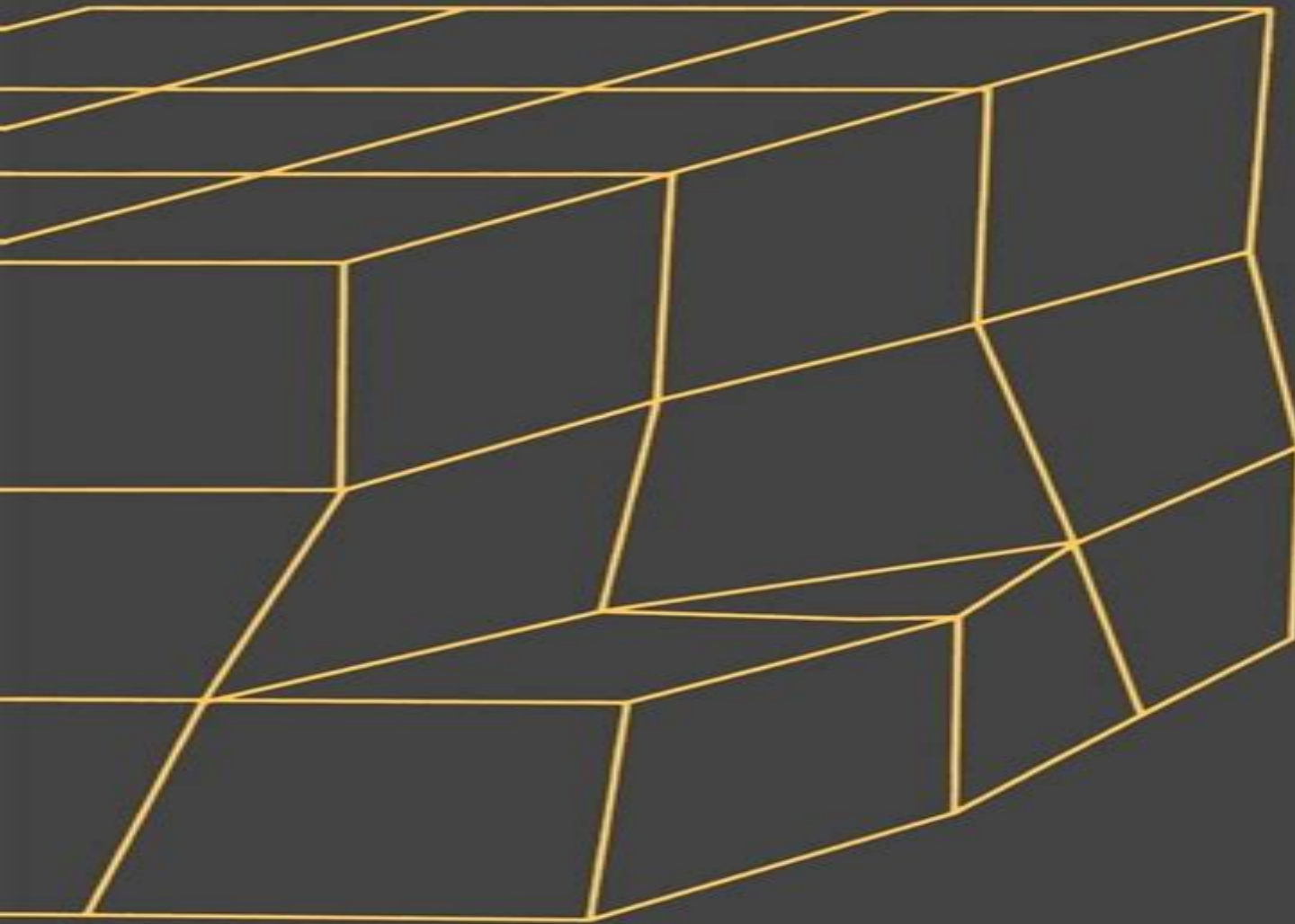


Elementary Dislocation Theory



Johannes Weertman
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Elementary Dislocation Theory

David E. Laughlin, Kazuhiro Hono



Elementary Dislocation Theory:

Elementary Dislocation Theory [by] Johannes Weertman and Julia R. Weertman Johannes Weertman, Julia Randall Weertman, 1966 Elementary dislocation theory. (Third printing.). Johannes WEERTMAN (and WEERTMAN (Julia Randall)), 1966 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 **Fundamental Aspects of Dislocation Theory** John Arthur Simmons, Roland De Wit, R. Bullough, 1970 **Generalized Continua and Dislocation Theory** Carlo 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 inhomogeneities 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 *Theory of Dislocations* Peter M. Anderson, John P. Hirth, Jens Lothe, 2017-01-16 This book provides a comprehensive understanding of the nucleation motion and interaction between crystalline defects called dislocations **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 **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,2011-02-18 In materials science dislocations are irregularities within the crystal structure or atomic scale of engineering materials such as metals semi conductors polymers and composites Discussing this specific aspect of materials science and engineering Introduction to Dislocations is a key resource for students The book provides students and practitioners with the fundamental principles required to understand dislocations Comprised of 10 chapters the text includes advanced computer modeling and very high resolution electron microscopy to help readers better understand the structure of atoms close to the core of dislocations It shows that atomic arrangement has a significant effect on the formation of dislocations and thereby on the properties of solids The first two chapters of the book present an overview of dislocations The crystal structures and the various defects and dislocations are discussed and methods of observation and diagnosis of dislocations are covered Chapters 3 to 5 discuss the behavior of dislocations and explain how changes in the structure and arrangement of atoms can affect the behavior of dislocations The three chapters also discuss the mechanical properties of dislocations The remaining chapters offer a detailed discussion of the mechanisms of dislocations and the mechanical strength of crystalline solids The book is written for undergraduate and graduate level students in both materials science and mechanical engineering Non experts and novices working on mechanical properties mechanisms of deformation and fracture and properties of materials as well as industrial and academic researchers will find this book invaluable Long established academic reference by an expert author team highly regarded for their contributions to the field Uses minimal mathematics to present theory and applications in a detailed yet easy to read manner making this an understandable introduction to a complex topic Unlike the main competition this new edition includes recent developments in the subject and up to date references to further reading and research sources

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 theory of dislocation motion at low and high temperatures **Dislocation Based Fracture Mechanics** Johannes (Hans) Weertman,1996-02-16 The dislocation is the basic building block of 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 Encyclopedia of Iron, Steel, and Their Alloys (Online Version) Rafael Colás,George E. Totten,2016-01-06 The first of many important works featured in CRC Press Metals and Alloys Encyclopedia Collection the

Encyclopedia of Iron Steel and Their Alloys covers all the fundamental theoretical and application related aspects of the metallurgical science engineering and technology of iron steel and their alloys This Five Volume Set addresses topics such as extractive metallurgy powder metallurgy and processing physical metallurgy production engineering corrosion engineering thermal processing metalworking welding iron and steelmaking heat treating rolling casting hot and cold forming surface finishing and coating crystallography metallography computational metallurgy metal matrix composites intermetallics nano and micro structured metals and alloys nano and micro alloying effects special steels and mining A valuable reference for materials scientists and engineers chemists manufacturers miners researchers and students this must have encyclopedia Provides extensive coverage of properties and recommended practices Includes a wealth of helpful charts nomograms and figures Contains cross referencing for quick and easy search Each entry is written by a subject matter expert and reviewed by an international panel of renowned researchers from academia government and industry Also Available Online This Taylor E mail e reference taylorandfrancis com International Tel 44 0 20 7017 6062 E mail online sales tandf co uk **NBS Monograph** ,1963 *Mechanical Behavior of Crystalline Solids* ,1963 *Mechanical Behavior of Materials* William F. Hosford,2010 This is a textbook on the mechanical behavior 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 Physical Metallurgy David E. Laughlin,Kazuhiro Hono,2014-07-24 This fifth edition of the highly regarded family of titles that first published in 1965 is now a three volume set and over 3 000 pages All chapters have been revised and expanded either by the fourth edition authors alone or jointly with new co authors Chapters have been added on the physical metallurgy of light alloys the physical metallurgy of titanium alloys atom probe field ion microscopy computational metallurgy and orientational imaging microscopy The books incorporate the latest experimental research results and theoretical insights Several thousand citations to the research and review literature are included Exhaustively synthesizes the pertinent contemporary developments within physical metallurgy so scientists have authoritative information at their fingertips Replaces existing articles and monographs with a single complete solution Enables metallurgists to predict changes and create novel alloys and processes **Applied Mechanics Reviews** ,1962 **Dislocations, Mesoscale Simulations and Plastic Flow** L. Kubin,2013-04-18 In the past twenty years new experimental approaches improved models and progress in simulation techniques brought new insights into long standing issues concerning dislocation based plasticity in crystalline materials Dislocation dynamics simulations are becoming accessible to a wide range of users This book presents to students and researchers in materials science and mechanical engineering a comprehensive coverage of the physical body of knowledge on which they are based This includes classical studies which are too often ignored recent experimental and theoretical advances as well as a discussion of selected applications on various topics

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