

What are Dislocations?

Dislocations are irregularities within a crystal structure that allow deformation to occur at lower stress levels. They can be classified into **edge** and **screw dislocations**, each affecting the mechanical properties of materials differently. Understanding these types is essential for manipulating material characteristics.



Dislocation Dynamics

Wenbin Ji



Dislocation Dynamics:

Dislocation Dynamics and Plasticity Taira Suzuki, Shin Takeuchi, Hideo Yoshinaga, 2013-03-07 In the 1950s the direct observation of dislocations became possible stimulating the interest of many research workers in the dynamics of dislocations. This led to major contributions to the understanding of the plasticity of various crystalline materials. During this time the study of metals and alloys of fcc and hcp structures developed remarkably. In particular the discovery of the so-called inertial effect caused by the electron and phonon frictional forces greatly influenced the quantitative understanding of the strength of these metallic materials. Statistical studies of dislocations moving through random arrays of point obstacles played an important role in the above advances. These topics are described in Chaps 2-4. Metals and alloys with bcc structure have large Peierls forces compared to those with fcc structure. The reasons for the delay in studying substances with bcc structure were mostly difficulties connected with the purification techniques and with microscopic studies of the dislocation core. In the 1970s these difficulties were largely overcome by developments in experimental techniques and computer physics. Studies of dislocations in ionic and covalent bonding materials with large Peierls forces provided information about the core structures of dislocations and their electronic interactions with charged particles. These are the main subjects in Chaps 5-7.

Dislocation Dynamics During Plastic Deformation Ulrich Messerschmidt, 2010-04-19 Along with numerous illustrative examples this text provides an overview of the dynamic behavior of dislocations and its relation to plastic deformation. It introduces the general properties of dislocations and treats the dislocation dynamics in some detail. **Dislocation**

Dynamics Alan R. Rosenfield, 1968 Dislocation Dynamics and Mechanical Properties of Crystals Edward Nadgornyi, 1988

Dislocation Dynamics and Plasticity Taira Suzuki, Shin Takeuchi, Hideo Yoshinaga, 1985 **Dislocations, Mesoscale Simulations and Plastic Flow** Ladislav 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. During this period three dimensional dislocation dynamics simulations appeared and reached maturity. Their objectives are to unravel the relation between individual and collective dislocation processes at the mesoscale to establish connections with atom scale studies of dislocation core properties and to bridge in combination with modelling the gap between defect properties and phenomenological continuum models for plastic flow. 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. It includes classical studies which are too often ignored, recent experimental and theoretical advances as well as a discussion of selected applications on various topics. *Comparison of Dislocation Density Tensor Fields Derived from Discrete Dislocation Dynamics and Crystal Plasticity Simulations of Torsion*, 2016 Accurate simulation of the plastic deformation of ductile metals is important to the design of structures and components to performance and failure criteria. Many techniques

Dynamics Robert A. Vardanian, 2001 Dislocations in solids are peculiar among numerous defects in the crystal lattice. From the viewpoint of dimensionality, dislocation represents one-dimensional defect translationally invariant along its axis. Physically, it is a topological defect, i.e., a fictitious formation violating the lattice symmetry. As a result, dislocations have a significant effect on various electric and optical characteristics of metals as well as semiconductors. This book reviews the state of experiment and theory concerning the principal mechanisms of dislocational motion. Depending on the value of applied load, dislocation dynamics is considered in the Peierls potential, relief random field of point defects, or under interaction with free electrons. *Continuum and Atomistic Aspects of Dislocation Dynamics* Jie Yin, 2013 Dislocation dynamics (DD) simulations have been developed to link the plastic deformation of single crystals with the microscopic dynamics of dislocations. Most of the existing DD simulation programs are limited to isotropic elasticity, even though most single crystals are elastically anisotropic. Understanding the connection between DD and plasticity under these conditions requires an efficient DD simulation program that can account for anisotropic elasticity. Cross slip is also an aspect of dislocation dynamics which plays an important role in the plastic deformation of FCC metals, leading to hardening and dynamic recovery. However, a satisfactory cross slip model has not yet been implemented in DD simulations which accurately reflects the dependence of energy barrier on the local stress. To enable efficient computation of forces on dislocation segments in an anisotropic linear elastic medium, several alternative approaches are investigated, and explicit expressions are derived for self stress and self force. These can be used to compute short range stress fields in DD simulations. To compute long range interactions between distant dislocation segments, the fast multipole method (FMM) proves to be efficient; however, FMM has not yet been applied to three-dimensional DD simulations which take into account anisotropic elasticity. A systematic procedure is demonstrated to establish this capability by first obtaining the derivatives of the elastic Green's function to arbitrary order for a medium of general anisotropy. Then the stress fields of dislocation segments are computed using multipole expansions based on these derivatives. These algorithm advances enable efficient calculations of both short range and long range stress fields in DD simulations. Both continuum and atomistic study of dislocation cross slip is performed. To construct a cross slip rate function of the local stress state, the line tension model following Stroh and Escaig is studied, and the cross slip energy barriers are computed numerically. To provide an atomistic understanding of cross slip mechanism, molecular dynamics (MD) simulations are performed to investigate the phenomenon under different stress conditions. Cross slip energy barriers are evaluated and compared with numerical results given by the line tension model. These studies lead to cross slip rate predictions as a function of local stress, which are suitable for use in DD simulations.

Publications of the National Bureau of Standards, 1971 Catalog Betty L. Oberholtzer, 1972 **Comprehensive Nuclear**

Materials, 2020-07-22 Materials in a nuclear environment are exposed to extreme conditions of radiation, temperature, and/or corrosion, and in many cases the combination of these makes the material behavior very different from conventional

materials This is evident for the four major technological challenges the nuclear technology domain is facing currently i long term operation of existing Generation II nuclear power plants ii the design of the next generation reactors Generation IV iii the construction of the ITER fusion reactor in Cadarache France iv and the intermediate and final disposal of nuclear waste In order to address these challenges engineers and designers need to know the properties of a wide variety of materials under these conditions and to understand the underlying processes affecting changes in their behavior in order to assess their performance and to determine the limits of operation Comprehensive Nuclear Materials Second Edition Seven Volume Set provides broad ranging validated summaries of all the major topics in the field of nuclear material research for fission as well as fusion reactor systems Attention is given to the fundamental scientific aspects of nuclear materials fuel and structural materials for fission reactors waste materials and materials for fusion reactors The articles are written at a level that allows undergraduate students to understand the material while providing active researchers with a ready reference resource of information Most of the chapters from the first Edition have been revised and updated and a significant number of new topics are covered in completely new material During the ten years between the two editions the challenge for applications of nuclear materials has been significantly impacted by world events public awareness and technological innovation Materials play a key role as enablers of new technologies and we trust that this new edition of Comprehensive Nuclear Materials has captured the key recent developments Critically reviews the major classes and functions of materials supporting the selection assessment validation and engineering of materials in extreme nuclear environments Comprehensive resource for up to date and authoritative information which is not always available elsewhere even in journals Provides an in depth treatment of materials modeling and simulation with a specific focus on nuclear issues Serves as an excellent entry point for students and researchers new to the field

Continuous Dislocation Dynamics Made Simple Alfonso Ngan,Alireza Kalaei,2024-07-16

This book introduces an exact approach to continuous dislocation dynamics based on the all dislocation density ADD for mesoscopic simulation of coarse grained dislocation microstructures *Mobility Laws in Dislocation Dynamics Simulations*,2003 Prediction of the plastic deformation behavior of single crystals based on the collective dynamics of dislocations has been a challenge for computational materials science for a number of years The difficulty lies in the inability of existing dislocation dynamics DD codes to handle a sufficiently large number of dislocation lines to establish a statistically representative model of crystal plasticity A new massively parallel DD code is developed that is capable of modeling million dislocation systems by employing thousands of processors We discuss an important ingredient of this code the mobility laws dictating the behavior of individual dislocations They are materials input for DD simulations and are constructed based on the understanding of dislocation motion at the atomistic level *Catalog of National Bureau of Standards Publications, 1966-1976: pt. 1-2. Key word index* United States. National Bureau of Standards,1978

Unveiling the Magic of Words: A Report on "**Dislocation Dynamics**"

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