

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

IM Harris



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. *Publications* United States. National Bureau of Standards, 1971 [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 exist that address the length scales relevant to deformation processes including dislocation dynamics DD which models the interaction and evolution of discrete dislocation line segments and crystal plasticity CP which incorporates the crystalline nature and restricted motion of dislocations into a higher scale continuous field framework While these two methods are conceptually related there have been only nominal efforts focused at the global material response that use DD generated information to enhance the fidelity of CP models To ascertain to what degree the predictions of CP are consistent with those of DD we compare their global and microstructural response in a number of deformation modes After using nominally homogeneous compression and shear deformation dislocation dynamics simulations to calibrate crystal plasticity flow rule parameters we compare not only the system level stress strain response of prismatic wires in torsion but also the resulting geometrically necessary dislocation density fields To establish a connection between explicit description of dislocations and the continuum assumed with crystal plasticity simulations we ascertain the minimum length scale at which meaningful dislocation density fields appear Furthermore our results show that for the case of torsion that the two material models can produce comparable spatial dislocation density distributions

NBS Special Publication ,1968 *Publications of the National Institute of Standards and Technology ... Catalog* National Institute of Standards and Technology (U.S.),1971 **Dislocation Dynamics Simulations of Plasticity at Small Scales** ,2010 As metallic structures and devices are being created on a dimension comparable to the length scales of the underlying dislocation microstructures the mechanical properties of them change drastically Since such small structures are increasingly common in modern technologies there is an emergent need to understand the critical roles of elasticity plasticity and fracture in small structures Dislocation dynamics DD simulations in which the dislocations are the simulated entities offer a way to extend length scales beyond those of atomistic simulations and the results from DD simulations can be directly compared with the micromechanical tests The primary objective of this research is to use 3 D DD simulations to study the plastic deformation of nano and micro scale materials and understand the correlation between dislocation motion interactions and the mechanical response Specifically to identify what critical events i e dislocation multiplication cross slip storage nucleation junction and dipole formation pinning etc determine the deformation response and how these change from bulk behavior as the system decreases in size and correlate and improve our current knowledge of bulk plasticity with the knowledge gained from the direct observations of small scale plasticity Our simulation results on single crystal micropillars and polycrystalline thin films can match the experiment results well and capture the essential features in small scale plasticity Furthermore several simple and accurate models have been developed following our simulation results and can reasonably predict the plastic behavior of small scale materials

Publications of the National Bureau of Standards United States. National Bureau of Standards,1971 **Publications of the National Bureau of Standards ... Catalog** United States. National Bureau of Standards,1972 **Publications of the National**

Bureau of Standards, 1971 Catalog Betty L. Oberholtzer,1972 **Crystal Lattice Defects and Dislocation 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 are 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 **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

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

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

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