

Chapter 4: Deformation & Strengthening Mechanisms

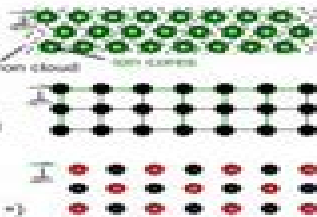
ISSUES TO ADDRESS...

- Why are the number of dislocations present greatest in metals?
- How are strength and dislocation motion related?
- Why does heating alter strength and other properties?

Chapter 7 - 1

Dislocations & Materials Classes

- Metals (Cu, Al):
Dislocation motion easiest
- non-directional bonding
- close-packed directions for slip
- Covalent Ceramics (Si, diamond): Motion difficult
- directional (angular) bonding
- Ionic Ceramics (NaCl):
Motion difficult
- need to avoid nearest neighbors of like sign (- and +)



Chapter 7 - 2

Dislocation Motion

Dislocation motion & plastic deformation

- Metals - plastic deformation occurs by **slip** - an edge dislocation (extra half-plane of atoms) slides over adjacent plane half-planes of atoms.

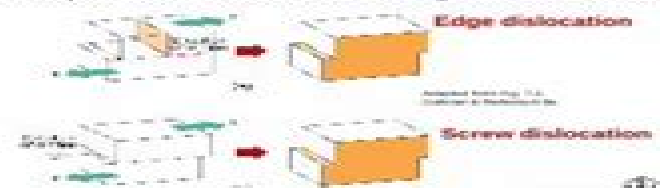


- If dislocations can't move, plastic deformation doesn't occur

Chapter 7 - 3

Dislocation Motion

- A dislocation moves along a **slip plane** in a **slip direction** perpendicular to the dislocation line
- The slip direction is the same as the **Burgers vector** direction



Chapter 7 - 4

Deformation Mechanisms

Slip System

- Slip plane - plane on which easiest slippage occurs.
• Highest plane density (and large interplanar spacing)
- Slip directions - directions of movement
• Highest linear densities



- FCC slip occurs on {111} planes (close-packed) in <110> directions (close-packed)
⇒ total of 12 slip systems in FCC
- For BCC & HCP there are other slip systems.

Chapter 7 - 5

Stress and Dislocation Motion

- Resolved shear stress, τ_R
- results from applied tensile stresses



$$\tau_R = \sigma \cos \lambda \cos \phi$$

Chapter 7 - 6

Dislocations Mech Properties Of Crysta

**Conference on the Mechanical
Properties of Engineering Ceramics
(1960 : North Carolina State Colleg**

Dislocations Mech Properties Of Crysta:

Crystal Dislocations: Their Impact on Physical Properties of Crystals Peter Lagerlof, 2019-01-09 This book is a printed edition of the Special Issue Crystal Dislocations Their Impact on Physical Properties of Crystals that was published in Crystals

Crystal Dislocations: Their Impact on Physical Properties of Crystals Peter Lagerlof, 2018 The proposed existence of the edge and screw dislocation in the 1930s and the subsequent work showing that dislocation theory could explain the plastic deformation of crystals represent an important step in developing our understanding of materials into a science The continued work involved with characterization of dislocations and linking them to a variety of physical properties in both single and poly crystals have made enormous progress over the past 50 years It is rare to find a technical application involving a material with any crystal structure that is not impacted by dislocations mechanical properties massive phase transformations interphases crystal growth electronic properties the list goes on In many systems the properties is controlled by the formation of partial dislocations separated by a stacking fault for example plastic deformation via deformation twinning And finally giant strides have been made in characterization and modeling of systems containing dislocations The Special Issue on Crystal Dislocations is intended to provide a unique international forum aimed at covering a broad range of results involving dislocations and their importance on crystal properties and crystal growth Scientists working in a wide range of disciplines are invited to contribute to this cause Dr K Peter D Lagerlof Associate Professor of Ceramics Guest Editor

Mechanical Properties and Working of Metals and Alloys Amit Bhaduri, 2018-05-12 This book is intended to serve as core text or handy reference on two key areas of metallic materials i mechanical behavior and properties evaluated by mechanical testing and ii different types of metal working or forming operations to produce useful shapes The book consists of 16 chapters which are divided into two parts The first part contains nine chapters which describe tension including elastic stress strain relation relevant theory of plasticity and strengthening methods compression hardness bending torsion pure shear impact loading creep and stress rupture fatigue and fracture The second part is composed of seven chapters and covers fundamentals of mechanical working forging rolling extrusion drawing of flat strip round bar and tube deep drawing and high energy rate forming The book comprises an exhaustive description of mechanical properties evaluated by testing of metals and metal working in sufficient depth and with reasonably wide coverage The book is written in an easy to understand manner and includes many solved problems More than 150 numerical problems and many multiple choice questions as exercise along with their answers have also been provided The mathematical analyses are well elaborated without skipping any intermediate steps Slab method of analysis or free body equilibrium approach is used for the analytical treatment of mechanical working processes For hot working processes different frictional conditions sliding sticking and mixed sticking sliding have been considered to estimate the deformation loads In addition to the slab method of analysis this book also contains slip line field theory its application to the static system and the steady state motion Further this book includes upper

bound theorem and upper bound solutions for indentation compression extrusion and strip drawing The book can be used to teach graduate and undergraduate courses offered to students of mechanical aerospace production manufacturing and metallurgical engineering disciplines The book can also be used for metallurgists and practicing engineers in industry and development courses in the metallurgy and metallic manufacturing industries

Mechanical Properties of Ceramics John B. Wachtman, W. Roger Cannon, M. John Matthewson, 2009-08-13 A Comprehensive and Self Contained Treatment of the Theory and Practical Applications of Ceramic Materials When failure occurs in ceramic materials it is often catastrophic instantaneous and total Now in its Second Edition this important book arms readers with a thorough and accurate understanding of the causes of these failures and how to design ceramics for failure avoidance It systematically covers Stress and strain Types of mechanical behavior Strength of defect free solids Linear elastic fracture mechanics Measurements of elasticity strength and fracture toughness Subcritical crack propagation Toughening mechanisms in ceramics Effects of microstructure on toughness and strength Cyclic fatigue of ceramics Thermal stress and thermal shock in ceramics Fractography Dislocation and plastic deformation in ceramics Creep and superplasticity of ceramics Creep rupture at high temperatures and safe life design Hardness and wear And more While maintaining the first edition's reputation for being an indispensable professional resource this new edition has been updated with sketches explanations figures tables summaries and problem sets to make it more student friendly as a textbook in undergraduate and graduate courses on the mechanical properties of ceramics

Dislocations and Mechanical Properties of Crystals United States. Air Force. Office of Scientific Research, 1957

The Investigation of Plastic Behavior by Discrete Dislocation Dynamics for Single Crystal Pillar at Submicron Scale Yinan Cui, 2016-10-26 This thesis transports you to a wonderful and fascinating small scale world and tells you the origin of several new phenomena The investigative tool is the improved discrete dislocation based multi scale approaches bridging the continuum modeling and atomistic simulation Mechanism based theoretical models are put forward to conveniently predict the mechanical responses and defect evolution The findings presented in this thesis yield valuable new guidelines for microdevice design reliability analysis and defect tuning

Dislocation Dynamics and Mechanical Properties of Crystals Edward Nadgornyi, 1988

Scientific and Technical Aerospace Reports, 1972 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database

Theory of Crystal Dislocations Frank Reginald Nunes Nabarro, 1987

Materials, Properties and Preparation S. Mahajan, 1994 Hardbound The availability of various novel materials such as semiconductors tailor made polymers and ceramics has revolutionized information processing and transmission Since the early fifties semiconductors have formed the backbone of different information age technologies The fabrication of state of the art semiconducting devices requires either substrates or composite structures consisting of thin epitaxial layers Over the years great strides have been made both in growing bulk

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Dislocations Alan Cottrell,1964 **U.S. Government Research Reports** ,1961 Mechanical Properties of Engineering Ceramics ; Proceedings of a Conference Conducted by the School of Engineering and the College Extension Division, North Carolina State College, in Cooperation with the Office of Ordnance Conference on the Mechanical Properties of Engineering Ceramics (1960 : North Carolina State College,1961 Technical Abstract Bulletin Defense Documentation Center (U.S.),1961-07 **Intermetallic Compounds: Basic mechanical properties and lattice defects of intermetallic**

compounds Jack Hall Westbrook,Robert Louis Fleischer,2000 **Bibliography of Scientific and Industrial Reports** ,1965-07 **Defect Interaction and Clustering in Semiconductors** Sergio Pizzini,2002 Modern semiconductor devices rely upon precise defect engineering On the one hand defects are the components needed to generate the electronic architecture of the device On the other hand they may if not carefully controlled induce failure of that device During the past fifty years the electrical and optical properties of defects their generation transport clustering and reactions between them have been investigated intensively Yet the development of semiconductor technology remains closely connected to the advances made in defect science and engineering Compared to metals defect control in silicon is significantly complicated by the open structure of its lattice As a result reactions between defects even at room temperature have become a central issue in defect engineering Intermetallic Compounds, Basic Mechanical Properties and Lattice Defects of J. H. Westbrook,R. L. Fleischer,2000-06-15 This volume is one of four each of which consists of reprinted chapters from the highly acclaimed comprehensive two volume set Intermetallic Compounds Principles and Practice published in 1995 In some cases the author or authors have added a brief addendum to bring their chapter up to date and in other cases more recent references have been added Chapters have been selected and grouped in subject areas to provide more easily accessible and user friendly volumes for individual researchers The other titles in this four volume set are Crystal Structures of Intermetallic Compounds Structural Applications of Intermetallic Compounds Magnetic Electrical and Optical Properties and Applications of Intermetallic Compounds **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 **Irradiation Induced**
Dislocations and Vacancy Generation in Single Crystal Yttria Stabilized Zirconia Jill Noel Johnsen, 2006

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