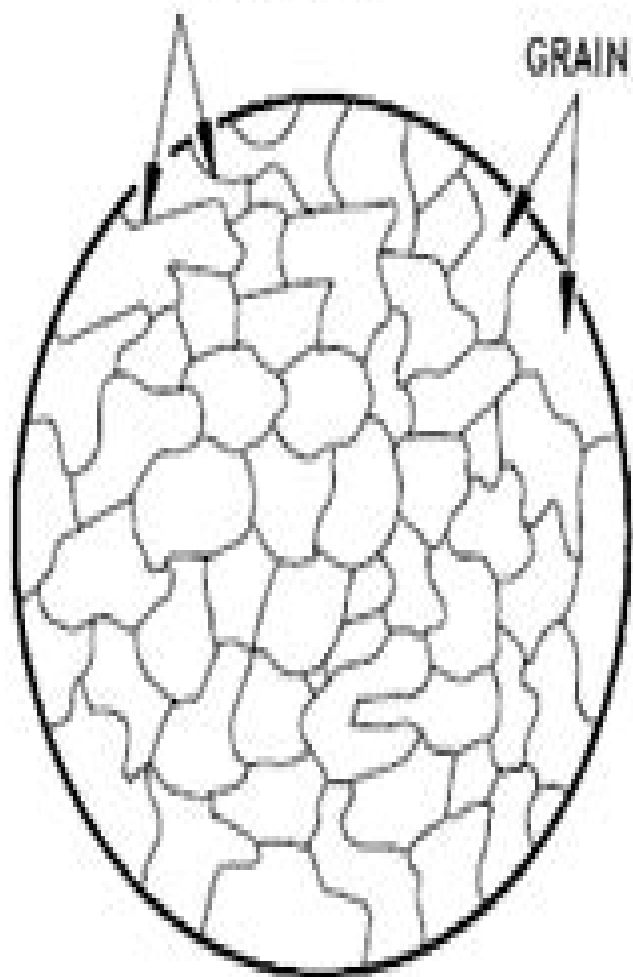


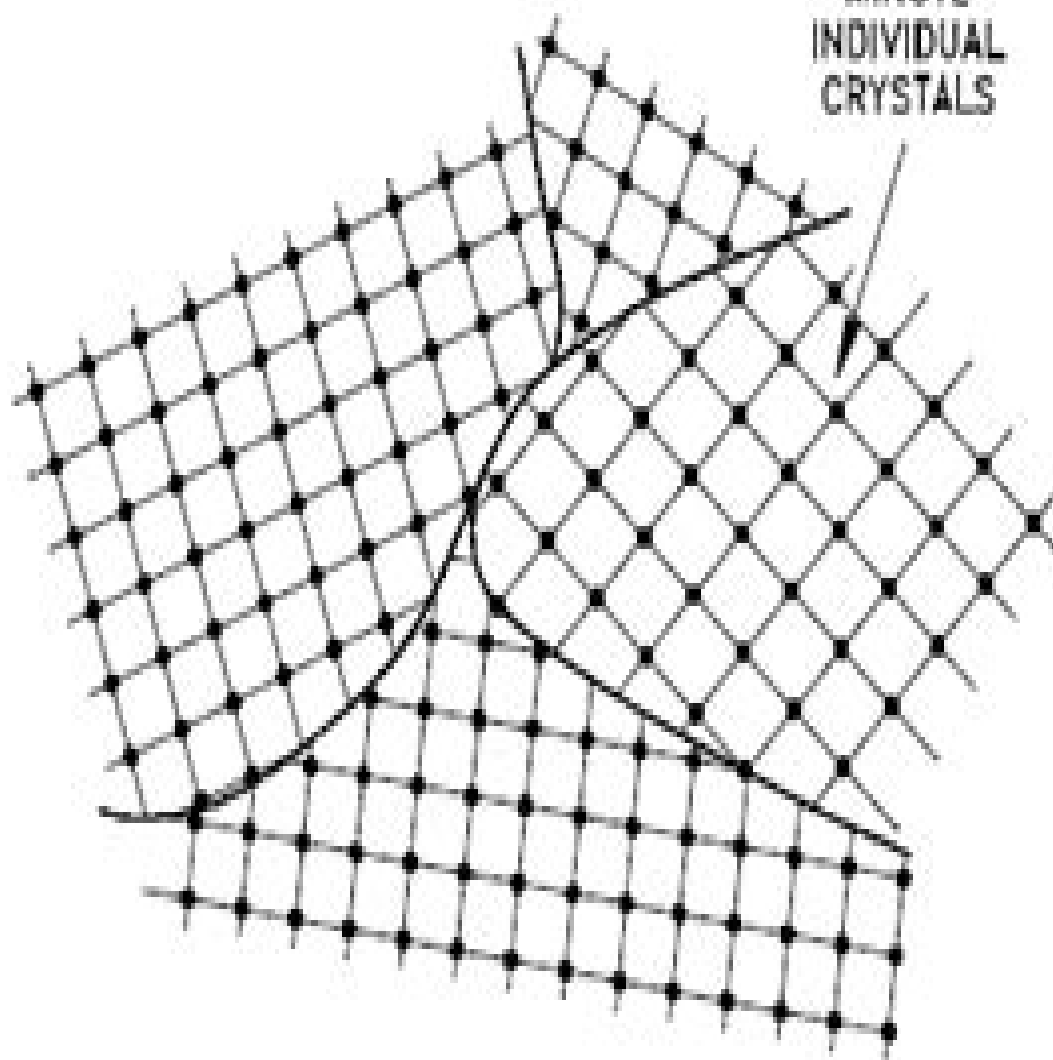
GRAIN
BOUNDARY

GRAIN



(A)

MINUTE
INDIVIDUAL
CRYSTALS



(B)

Grain Boundary Structure And Properties

Louissette Priester



Grain Boundary Structure And Properties:

Grain Boundary Structure and Properties Institution of Metallurgists (Great Britain), Iron and Steel Institute, 1976

Molecular Dynamics Study of Grain Boundary Structure and Properties at High Temperatures Saryu Jindal Fensin, 2010

This thesis reports research involving the development and application of atomistic simulation methods to study the effects of high homologous temperatures on the structural thermodynamic kinetic and mechanical properties of grain boundaries in metals. In this work we study two different elemental systems namely Ni and Cu and consider a variety of grain boundary structures characterized by different misorientation angles twist tilt character and zero temperature energies. A method to calculate the disjoining potential from molecular dynamics is developed and applied to grain boundaries in Ni. The disjoining potential characterizes the variation in grain boundary free energy as a function of the width of a premelted interfacial layer. The MD method for the calculation of this property is applied to grain boundaries that display continuous premelting transitions as well as a boundary characterized by a disordered atomic structure displaying a finite interfacial width at the melting temperature. We also develop analysis methods to characterize the change in the atomic structure of an asymmetric tilt grain boundary in elemental Cu as a function of temperature. This boundary is characterized by a potential energy surface with multiple minima as a function of the relative translation of the grains parallel to the interface plane. The structure of this boundary is found to display both disordering and roughening with increasing temperature. The mobility was calculated at high homologous temperatures using a method based on the analysis of the random walk of the interface in equilibrium MD simulations. Finally the temperature dependent response of this grain boundary to shear was investigated. The dynamical behavior of the boundary in response to an applied shear strain was observed to undergo qualitative changes as the temperature was increased above 700 K. A decrease in shear resistance of the grain boundaries as a function of temperature was characterized by a decrease in the critical shear stress an upper bound for which was estimated to be roughly a factor of five lower at the melting temperature than at zero temperature.

Grain Boundary Structure and Properties Geoffrey Allan Chadwick, David Anthony Smith, 1976

Grain Boundary Segregation in Metals Pavel Lejcek, 2010-07-20 Grain boundaries are important structural components of polycrystalline materials used in the vast majority of technical applications. Because grain boundaries form a continuous network throughout such materials their properties may limit their practical use. One of the serious phenomena which evoke these limitations is the grain boundary segregation of impurities. It results in the loss of grain boundary cohesion and consequently in brittle fracture of the materials. The current book deals with fundamentals of grain boundary segregation in metallic materials and its relationship to the grain boundary structure classification and other materials properties.

Grain Boundary Structure and Its Effects on Material Properties Rong Bai, 1999

Grain Boundary Structure and Properties Measured with Synchrotron Radiation Michael Raymond Fitzsimmons, 1988

Equilibrium

Structure and Properties of Surfaces and Interfaces A. Gonis, G.M. Stocks, 2012-12-06 It is almost self evident that

surface and interface science coupled with the electronic structure of bulk materials play a fundamental role in the understanding of materials properties. If one is to have any hope of understanding such properties as catalysis, microelectronic devices and contacts, wear, lubrication, resistance to corrosion, ductility, creep, intragranular fracture, toughness and strength of steels, adhesion of protective oxide scales and the mechanical properties of ceramics, one must address a rather complex problem involving a number of fundamental parameters: the atomic and electronic structure, the energy and chemistry of surface and interface regions, diffusion along and across interfaces and the response of an interface to stress. The intense need to gain an understanding of the properties of surfaces and interfaces is amply attested to by the large number of conferences and workshops held on surface and interface science. Because of this need, the fields of surface and interface science have been established in their own right, although their development presently lags behind that of general materials science associated with bulk translationally invariant systems. There are good reasons to expect this situation to change rather dramatically in the next few years. Existing techniques for investigating surfaces and interfaces have reached maturity and are increasingly being applied to systems of practical relevance. New techniques are still being created which drastically widen the scope of applicability of surface and interface studies. On the experimental side, new microscopies are bearing fruit.

Grain Boundaries Louisette Priester, 2012-11-28 Grain boundaries are a main feature of crystalline materials. They play a key role in determining the properties of materials, especially when grain size decreases and even more so with the current improvements of processing tools and methods that allow us to control various elements in a polycrystal. This book presents the theoretical basis of the study of grain boundaries and aims to open up new lines of research in this area. The treatment is light on mathematical approaches while emphasizing practical examples; the issues they raise are discussed with reference to theories. The general approach of the book has two main goals: to lead the reader from the concept of ideal to real grain boundaries, to depart from established knowledge and address the opportunities emerging through grain boundary engineering: the control of morphological and crystallographic features that affect material properties. The book is divided into three parts: I. From intergranular order to disorder deals with the concept of the perfect grain boundary at equilibrium and questions the maintenance of its crystalline state; II. From the ideal to the real grain boundary deals with the concept of the faulted grain boundary. It attempts to reveal the influence of the grain boundary structure on its defects, their formation and their accommodation; III. From free to constrained grain boundaries is devoted to grain boundary ensembles starting from the triple junction, the elemental configuration to real grain boundary networks in polycrystals. This part covers a new and topical development in the field. It presents for the first time an avenue for researchers working on macroscopic aspects to approach the scale of description of grain boundaries. Audience: graduate students, researchers and engineers in Materials Science and all those scientists pursuing grain boundary engineering in order to improve materials performance.

Structure, Thermodynamics and Diffusion Properties of Grain Boundaries and Interfaces Vladimir

V. Popov, E.N. Popova, 2015-07-29 Special topic volume with invited peer reviewed papers only *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 **Defect Structure and Properties of**

Nanomaterials J Gubicza, 2017-03-05 Defect Structure and Properties of Nanomaterials Second and Extended Edition covers a wide range of nanomaterials including metals alloys ceramics diamond carbon nanotubes and their composites This new edition is fully revised and updated covering important advances that have taken place in recent years Nanostructured materials exhibit unique mechanical and physical properties compared with their coarse grained counterparts therefore these materials are currently a major focus in materials science The production methods of nanomaterials affect the lattice defect structure vacancies dislocations disclinations stacking faults twins and grain boundaries that has a major influence on their mechanical and physical properties In this book the production routes of nanomaterials are described in detail and the relationships between the processing conditions and the resultant defect structure as well as the defect related properties e g mechanical behavior electrical resistance diffusion corrosion resistance thermal stability hydrogen storage capability etc are reviewed In particular new processing methods of nanomaterials are described in the chapter dealing with the manufacturing procedures of nanostructured materials New chapters on i the experimental methods for the study of lattice defects ii the defect structure in nanodisperse particles and iii the influence of lattice defects on electrical corrosion and diffusion properties are included to further enhance what has become a leading reference for engineering physics and materials science audiences Provides a detailed overview of processing methods defect structure and defect related mechanical and physical properties of nanomaterials Covers a wide range of nanomaterials including metals alloys ceramics diamond carbon nanotubes and their composites Includes new chapters covering recent advances in both processing

techniques and methods for the study of lattice defects Provides valuable information that will help materials scientists and engineers highlight lattice defects and the related mechanical and physical properties *The Structure and Properties of Grain Boundaries* Adrian P. Sutton, 1981 *Characterization of High Tc Materials and Devices by Electron Microscopy* Nigel D. Browning, Stephen J. Pennycook, 2000-07-06 This is a clear account of the application of electron based microscopies to the study of high Tc superconductors Written by leading experts this compilation provides a comprehensive review of scanning electron microscopy transmission electron microscopy and scanning transmission electron microscopy together with details of each technique and its applications Introductory chapters cover the basics of high resolution transmission electron microscopy including a chapter devoted to specimen preparation techniques and microanalysis by scanning transmission electron microscopy Ensuing chapters examine identification of superconducting compounds imaging of superconducting properties by low temperature scanning electron microscopy imaging of vortices by electron holography and electronic structure determination by electron energy loss spectroscopy The use of scanning tunnelling microscopy for exploring surface morphology growth processes and the mapping of superconducting carrier distributions is discussed Final chapters consider applications of electron microscopy to the analysis of grain boundaries thin films and device structures Detailed references are included **Grain Boundary Migration in Metals** Gunter Gottstein, Lasar S. Shvindlerman, 2009-12-23 A major goal of materials science is to create new engineering materials and optimize their cost and performance Understanding how adjacent materials behave at their borders is an essential part of this process Grain boundaries are the longest known crystal defects but although they were discovered in the mid eighteenth century until quite recently *Grain Boundary Controlled Properties of Fine Ceramics* Kozo Ishizaki, K. Niihara, M. Isotani, R.G. Ford, 2012-12-06 Selected papers presented at the International Workshop on Fine Ceramics 92 Materials Processing and Design through Better Control of Grain Boundaries Emphasizing Fine Ceramics held in Nagoya Japan 12-13 March 1992 Mechanical Properties and Performance of Engineering Ceramics II, Volume 27, Issue 2 Rajan Tandon, 2009-09-29 This volume contains over 70 papers on advanced research and development of processing mechanical properties and mechanics of ceramics and composites from the proceedings of the 30th International Conference on Advanced Ceramics and Composites January 22-27 2006 in Cocoa Beach Florida The conference was organized and sponsored by The American Ceramic Society and The American Ceramic Society's Engineering Ceramics Division in conjunction with the Nuclear and Environmental Technology Division It covers underlying fundamental links between microstructure and properties and the ability to achieve desired multifunctional properties through innovative processing techniques *Preparation and Properties of Thin Films* K. N. Tu, R. Rosenberg, 2013-10-22 Treatise on Materials Science and Technology Volume 24 Preparation and Properties of Thin Films covers the progress made in the preparation of thin films and the corresponding study of their properties The book discusses the preparation and property correlations in thin film the variation of microstructure of thin films and the molecular beam

epitaxy of superlattices in thin film The text also describes the epitaxial growth of silicon structures thermal laser and electron beam induced the characterization of grain boundaries in bicrystalline thin films and the mechanical properties of thin films on substrates The ion beam modification of thin film the use of thin alloy films for metallization in microelectronic devices and the fabrication and physical properties of ultrasmall structures are also encompassed Materials scientists and materials engineers will find the book invaluable

Collection of Items Related to the Cushing General Hospital, Framingham (Mass.), 1944 Cushing General Hospital was a military hospital dedicated on January 24 1944 to care for wounded WW II service men from New England Over 13 800 soldiers had been treated in less than two years many brought in ships from seaports in New England and transported by special train The hospital was named after a pioneer in neurosurgery Dr Harvey Cushing who died in 1939 and consisted of almost 100 brick buildings At the end of the war in 1946 Cushing General Hospital became a Veterans Administration Hospital administering to the Korean War wounded but closed in 1953 with the construction of a new V A Hospital in Boston The property was deeded to the Commonwealth of Massachusetts and a legislative Act in 1954 established Cushing Hospital Under the Department of Mental Health the hospital was opened in 1957 after renovation and modernization It was an accredited hospital and Medicare facility and closed in 1991 Fifty seven acres of the original 110 acre plot is currently 2011 managed by the Town of Framingham Dept of Parks and Recreation as the Cushing Memorial Park The park offers walking and passive recreation areas and includes the Framingham Peace and 9 11 Memorials Cushing Memorial Chapel remains as one of the original buildings now renovated and open for special services Assisted living housing occupies thirty six acres of the original site

Atomic-scale Structure of Grain Boundaries ,1993

Materials Science for Structural Geology Mervyn S. Paterson,2012-11-28 This book sets out the basic materials science needed for understanding the plastic deformation of rocks and minerals Although at atmospheric pressure or at relatively low environmental pressures these materials tend to be brittle that is to fracture with little prior plastic deformation when non hydrostatically stressed they can undergo substantial permanent strain when stressed under environmental conditions of high confining pressure and high temperature such as occur geologically in the Earth's crust and upper mantle Thus the plastic deformation of rocks and minerals is of fundamental interest in structural geology and geodynamics In mountain building processes and during convective stirring in the Earth's mantle rocks can undergo very large amounts of plastic flow accompanied by substantial changes in microstructure These changes in microstructure remain in the rocks as evidence of the past deformation history There are a number of types of physical processes whereby rock and minerals can undergo deformation under geological conditions The physics of these processes is set out in this book

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