

Louissette Priester

Grain Boundaries

From Theory to Engineering

Grain Boundaries From Theory To Engineering Springer Series In Materials Science

Bruce E. Hobbs, Alison Ord



Grain Boundaries From Theory To Engineering Springer Series In Materials Science:

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 in 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. **Advanced**

Materials Ivan A. Parinov, Shun-Hsyung Chang, Muaffaq A. Jani, 2017-08-04 This book presents 50 selected peer reviewed reports from the 2016 International Conference on Physics and Mechanics of New Materials and Their Applications PHENMA 2016 Surabaya Indonesia 19-22 July 2016. The Proceedings are devoted to processing techniques, physics, mechanics and applications of advanced materials. As such, they examine a wide spectrum of nanostructures, ferroelectric crystals, materials and composites as well as other promising materials with special properties. They present nanotechnology approaches, modern environmentally friendly piezoelectric and ferromagnetic techniques and physical and mechanical studies of the structural and physical mechanical properties of the materials discussed. Further, a broad range of original mathematical and numerical methods is applied to solve various technological, mechanical and physical problems which are interesting for applications. Great attention is devoted to novel devices with high accuracy, longevity and extended possibilities to work in wide temperature and pressure ranges, aggressive media etc. which show improved characteristics defined by the developed materials and composites, opening new possibilities to study different physico-mechanical processes and phenomena.

Introduction to Crystal Growth and Characterization Klaus-Werner Benz, Wolfgang Neumann, 2014-07-28 This new textbook provides for the first time a comprehensive treatment of the basics of contemporary crystallography and crystal

growth in a single volume The reader will be familiarized with the concepts for the description of morphological and structural symmetry of crystals The architecture of crystal structures of selected inorganic and molecular crystals is illustrated The main crystallographic databases as data sources of crystal structures are described Nucleation processes their kinetics and main growth mechanism will be introduced in fundamentals of crystal growth Some phase diagrams in the solid and liquid phases in correlation with the segregation of dopants are treated on a macro and microscale Fluid dynamic aspects with different types of convection in melts and solutions are discussed Various growth techniques for semiconducting materials in connection with the use of external field magnetic fields and microgravity are described Crystal characterization as the overall assessment of the grown crystal is treated in detail with respect to crystal defects crystal quality field of application Introduction to Crystal Growth and Characterization is an ideal textbook written in a form readily accessible to undergraduate and graduate students of crystallography physics chemistry materials science and engineering It is also a valuable resource for all scientists concerned with crystal growth and materials engineering

Theory of Dislocations

Peter M. Anderson, John P. Hirth, Jens Lothe, 2017-01-16 Theory of Dislocations provides unparalleled coverage of the fundamentals of dislocation theory with applications to specific metal and ionic crystals Rather than citing final results step by step developments are provided to offer an in depth understanding of the topic The text provides the solid theoretical foundation for researchers to develop modeling and computational approaches to discrete dislocation plasticity yet it covers important experimental observations related to the effects of crystal structure temperature nucleation mechanisms and specific systems This new edition incorporates significant advances in theory experimental observations of dislocations and new findings from first principles and atomistic treatments of dislocations Also included are new discussions on thin films deformation in nanostructured systems and connection to crystal plasticity and strain gradient continuum formulations Several new computer programs and worked problems allow the reader to understand visualize and implement dislocation theory concepts

Materials Science: Theory and Engineering Nestor Perez, 2024-08-01 This textbook presents a compilation of class tested materials and the results of research on a range of topics in into one comprehensive volume for readers engaged in the materials science and engineering aspects of phase transformation in metals Accordingly this is a suitable textbook for undergraduate and graduate students in the fields of mechanical engineering materials science metallurgical engineering and related disciplines The book incorporates two dimensional materials crystal defects mass transport thermodynamics of phase solidification heat transfer solidification and phase diagrams related to nucleation particle phases and explains solid state phase transformation mechanical behaviour and fracture toughness non destructive methods physical and optical properties of solids and electrochemical corrosion It also stands as an excellent reference treatise for practicing and consulting engineers Moreover the book is appropriate for graduate level coursework covering advanced subjects including quantum mechanics two dimensional materials fracture mechanics non destructive methods for

evaluating structural integrity and advanced analytical techniques in some appendices **Handbook of Corrosion**

Engineering Chandrabhan Verma, Jeenat Aslam, Ruby Aslam, Saman Zehra, Chaudhery Mustansar Hussain, 2023-08-14

Handbook of Corrosion Engineering Modern Theory Fundamentals and Practical Applications explores recent progress in metals corrosion and associated protection processes spanning all corrosion related characteristics utilized in natural and industrial environments including monitoring and testing The book combines the science and engineering of corrosion to assist readers in conducting exact corrosion evaluations in the design and plant management phases including optimal protection methods The book examines the basics of corrosion science including the electrochemical mechanism thermodynamic and kinetic aspects different corrosion forms such as uniform localized and stress corrosion phenomena and protection systems adopted to combat corrosion including inhibitors coatings and cathodic protection Focuses on industrial requirements including codes standards regulations and specifications Recommends materials for control and prevention of corrosion damage Offers industry tested best practices rationales and case studies Covers materials corrosion corrosion inhibition coating heat treatment test and inspection and mechanical design and integrity Includes websites of interest and information about latest research Comprises exercises and practical examples to understand predict estimate and mitigate corrosion problems Features numerous pictures figures graphs and schematic models to ensure a clear understanding of the science and engineering of corrosion *Principles of Inorganic Materials Design* John N. Lalena, David A. Cleary, Olivier

B.M. Hardouin Duparc, 2020-05-27 Learn the fundamentals of materials design with this all inclusive approach to the basics in the field Study of materials science is an important aspect of curricula at universities worldwide This text is designed to serve students at a fundamental level positioning materials design as an essential aspect of the study of electronics medicine and energy storage Now in its 3rd edition Principles of Inorganic Materials Design is an introduction to relevant topics including inorganic materials structure property relations and material behaviors The new edition now includes chapters on computational materials science intermetallic compounds and covalent compounds The text is meant to aid students in their studies by providing additional tools to study the key concepts and understand recent developments in materials research In addition to the many topics covered the textbook includes Accessible learning tools to help students better understand key concepts Updated content including case studies and new information on computational materials science Practical end of chapter exercises to assist students with the learning of the material Short biographies introducing pioneers in the field of inorganic materials science For undergraduates just learning the material or professionals looking to brush up on their knowledge of current materials design information this text covers a wide range of concepts research and topics to help round out their education The foreword to the first edition was written by the 2019 Chemistry Nobel laureate Prof John B Goodenough Atomistic and Continuum Modeling of Nanocrystalline Materials Laurent Capolungo, 2010-03-17 Atomistic

and Continuum Modeling of Nanocrystalline Materials develops a complete and rigorous state of the art analysis of the

modeling of the mechanical behavior of nanocrystalline NC materials Among other key topics the material focuses on the novel techniques used to predict the behavior of nanocrystalline materials Particular attention is given to recent theoretical and computational frameworks combining atomistic and continuum approaches Also the most relevant deformation mechanisms governing the response of nanocrystalline materials are addressed and discussed in correlation with available experimental data

Computational Materials Design Tetsuya Saito, 2013-04-17 Computational Materials Design consists of ten chapters outlining a wide range of materials design technologies from first principle calculations to continuum mechanics with successful applications to materials design and development Each theory is explained from the point of view of a relevant technology Thus the reader can understand the outline of each theory and the effectiveness of computational approaches in terms of materials phenomena as well as materials design and development

Proceedings of First Asian Symposium on Cellular Automata Technology Sukanta Das, Genaro J. Martinez, 2022-04-27 This book gathers selected research papers presented at the First Asian Symposium on Cellular Automata Technology ASCAT 2022 organized online by academicians from Kolkata India during March 3 5 2022 The book presents one of the most emergent areas in natural computing cellular automaton CA CA is a paradigm of uniform fine grained parallel computation which has been explored to understand complex systems by developing its model at the microscopic level The book discusses many real life problems in the domain of very large scale integration VLSI design and test pattern recognition and classification cryptography pseudo random pattern generation image processing sensor networks material science etc by using CA

Steigerung der thermischen Stabilität von warm- und kaltgewalztem Wolfram durch Kalium-Dotierung für die Fusionsenergietechnik Lied, Philipp, 2025-02-11 Kaltgewalztes Wolfram mit hohen Umformgraden zeigt eine außergewöhnlich hohe Duktilität Die dafür notwendige ultrafeinkörnige Mikrostruktur ist jedoch thermisch hochgradig instabil Ein vielversprechender Stabilisierungsansatz bietet sich durch Kalium Dotierung an deren Potential im Rahmen dieser Arbeit umfassend analysiert und qualifiziert wurde K dotiertes Wolfram könnte die technischen Möglichkeiten thermisch hochbelasteter Komponenten zukünftiger Fusionsreaktoren entscheidend verbessern

Cold rolled tungsten with high degrees of deformation exhibits exceptionally high ductility However the required ultra fine grained microstructure is thermally unstable A promising stabilization approach is offered by potassium doping the potential of which was comprehensively analyzed and qualified as part of this work K doped tungsten could significantly improve the technical possibilities for components of future fusion reactors under heavy thermal loads

Encyclopedia of Materials Science and Engineering, 1986

Kristalle verändern unsere Welt Wolfgang Neumann, Klaus-Werner Benz, 2018-03-19 Anliegen dieses Buches ist es dem Leser in einer allgemein verständlichen Form die faszinierende Vielfalt der Kristallwelt aufzuzeigen Im einleitenden Teil werden einerseits die Zusammenhänge zwischen natürlichen Kristallen Mineralen und Gesteinen und andererseits das Auftreten von natürlichen und künstlichen Kristallen in Natur und Technik beschrieben Ein kurzer historischer Abriss führt von

den Anfängen der Entdeckung der Kristalle bis hin zur Entwicklung der Kristallographie als eigenständige Wissenschaft. Es wird anschaulich erläutert, wie Kristalle aufgebaut sind und wie die Kristalleigenschaften durch die strukturelle Symmetrie und durch die vorhandenen Kristallbaufehler beeinflusst werden. Die Bedeutung der modernen Kristallographie und ihre wissenschaftlichen Meilensteine bis zur Ausrichtung des Internationalen Jahres der Kristallographie 2014 durch die UNESCO und die International Union of Crystallography (IUCr) werden illustriert. Die Rolle bedeutender Frauen in der kristallographischen Forschung wird besonders hervorgehoben.

Contents: Was sind Kristalle? Das Elektronikzeitalter. Vom Silizium zu den Verbindungshalbleitern. Nanokristalline Materialien. Neue Werkstoffe mit extremen Eigenschaften. Die Bedeutung der Kristallographie und ihre wissenschaftliche Entwicklung. Anhang: Tabellen und Darstellungen zur Symmetrie von Kristallen.

Hexagonal Boron Nitride Kalim Deshmukh, Mayank Pandey, Chaudhery Mustansar Hussain, 2024-05-31. Hexagonal Boron Nitride: Synthesis, Properties and Applications offers a comprehensive approach to hexagonal boron nitride (h-BN) covering synthesis, exfoliation, properties, characterization, functionalization, heterostructures, nanocomposites, and modelling and simulation, and guiding the reader towards advanced applications in biomedicine, electronics, energy storage, wastewater treatment, and other areas. The book begins by introducing hexagonal boron nitride, discussing classification, structure, synthesis methods, exfoliation, and functionalization techniques. This is followed by in-depth coverage of properties and characterization, as well as heterostructures and other two-dimensional materials, as well as nanocomposites. The fourth section of the book examines specific target applications covering a range of cutting-edge areas, including micro and nano electronics, anti-friction and anti-corrosive coatings, bone tissue engineering, wound healing, nanomedicine, drug delivery, catalysis, water treatment, energy storage and conversion, sensing and bio-sensing, and fire retardant applications. Finally, computational modelling and simulation and environmental aspects are addressed in detail. This is a valuable resource for researchers and advanced students across nanotechnology, materials science, chemistry, environmental science, chemical engineering, biomedicine, electronics, and engineering. In an industrial setting, this book supports scientists, engineers, and R&D professionals with an interest in advanced 2D materials or nanomaterials for advanced applications. Presents the synthesis, properties, functionalization, and characterization methods for hexagonal boron nitride. Explores novel applications across biomedicine, electronics, energy storage, and water treatment. Addresses key challenges such as biocompatibility, toxicity, and environmental and health impact.

Structural Geology Bruce E. Hobbs, Alison Ord, 2014-11-21. Structural Geology is a groundbreaking reference that introduces you to the concepts of nonlinear solid mechanics and non-equilibrium thermodynamics in metamorphic geology, offering a fresh perspective on rock structure and its potential for new interpretations of geological evolution. This book stands alone in unifying deformation and metamorphism and the development of the mineralogical fabrics and the structures that we see in the field. This reflects the thermodynamics of systems not at equilibrium within the framework of modern nonlinear solid mechanics. The thermodynamic approach enables

the various mechanical thermal hydrological and chemical processes to be rigorously coupled through the second law of thermodynamics invariably leading to nonlinear behavior The book also differs from others in emphasizing the implications of this nonlinear behavior with respect to the development of the diverse complex even fractal range of structures in deformed metamorphic rocks Building on the fundamentals of structural geology by discussing the nonlinear processes that operate during the deformation and metamorphism of rocks in the Earth's crust the book's concepts help geoscientists and graduate level students understand how these processes control or influence the structures and metamorphic fabrics providing applications in hydrocarbon exploration ore mineral exploration and architectural engineering Authored by two of the world's foremost experts in structural geology representing more than 70 years of experience in research and instruction Nearly 300 figures illustrations working examples and photographs reinforce key concepts and underscore major advances in structural geology

Maintenance and Safety of Aging Infrastructure Dan Frangopol, Yiannis Tsompanakis, 2014-10-23 This book presents the latest research findings in the field of maintenance and safety of aging infrastructure The invited contributions provide an overview of the use of advanced computational and or experimental techniques in damage and vulnerability assessment as well as maintenance and retrofitting of aging structures and infrastructures such

Superalloys 2020 Sammy Tin, Mark Hardy, Justin Clews, Jonathan Cormier, Qiang Feng, John Marcin, Chris O'Brien, Akane Suzuki, 2020-08-28 The 14th International Symposium on Superalloys Superalloys 2020 highlights technologies for lifecycle improvement of superalloys In addition to the traditional focus areas of alloy development processing mechanical behavior coatings and environmental effects this volume includes contributions from academia supply chain and product user members of the superalloy community that highlight technologies that contribute to improving manufacturability affordability life prediction and performance of superalloys

Comprehensive Hard Materials Daniele Mari, Luis Miguel, Christoph E. Nebel, 2014-02-01 Comprehensive Hard Materials Three Volume Set deals with the production uses and properties of the carbides nitrides and borides of these metals and those of titanium as well as tools of ceramics the superhard boron nitrides and diamond and related compounds Articles include the technologies of powder production including their precursor materials milling granulation cold and hot compaction sintering hot isostatic pressing hot pressing injection moulding as well as on the coating technologies for refractory metals hard metals and hard materials The characterization testing quality assurance and applications are also covered Comprehensive Hard Materials provides meaningful insights on materials at the leading edge of technology It aids continued research and development of these materials and as such it is a critical information resource to academics and industry professionals facing the technological challenges of the future Hard materials operate at the leading edge of technology and continued research and development of such materials is critical to meet the technological challenges of the future Users of this work can improve their knowledge of basic principles and gain a better understanding of process structure property relationships With the convergence of nanotechnology coating techniques

and functionally graded materials to the cognitive science of cemented carbides cermets advanced ceramics super hard materials and composites it is evident that the full potential of this class of materials is far from exhausted This work unites these important areas of research and will provide useful insights to users through its extensive cross referencing and thematic presentation To link academic to industrial usage of hard materials and vice versa this work deals with the production uses and properties of the carbides nitrides and borides of these metals and those of titanium as well as tools of ceramics the superhard boron nitrides and diamond and related compounds

Stability of Materials A. Gonis, Josef Kudrnovský, Patrice E.A. Turchi, 2012-12-06 Engineering materials with desirable physical and technological properties requires understanding and predictive capability of materials behavior under varying external conditions such as temperature and pressure This immediately brings one face to face with the fundamental difficulty of establishing a connection between materials behavior at a microscopic level where understanding is to be sought and macroscopic behavior which needs to be predicted Bridging the corresponding gap in length scales that separates the ends of this spectrum has been a goal intensely pursued by theoretical physicists experimentalists and metallurgists alike Traditionally the search for methods to bridge the length scale gap and to gain the needed predictive capability of materials properties has been conducted largely on a trial and error basis guided by the skill of the metallurgist large volumes of experimental data and often ad hoc semi phenomenological models This situation has persisted almost to this day and it is only recently that significant changes have begun to take place These changes have been brought about by a number of developments some of long standing others of more recent vintage

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

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