

# **MODELING THE DEFORMATION OF CRYSTALLINE SOLIDS**



**Edited by  
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# Modeling The Deformation Of Crystalline Solids

**Marco Cascella**

A decorative red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the author's name.

## **Modeling The Deformation Of Crystalline Solids:**

**A Framework for Multiscale Modeling of Deformation in Crystalline Solids**, 2006 A simulation framework was developed for studying the deformation behavior of metallic materials Atomistic simulations were employed to study dislocation nucleation during nanoindentation and to correlate dislocation behavior and overall material response in thin film crystals An instrumented indenter was acquired to study the indentation behavior of metallic composites Experimental and continuum based modeling works on indentation of discontinuously reinforced metal matrix composites were also conducted Detailed microscopic features were analyzed which aided in our fundamental understanding of plastic deformation in these materials

**Modeling the Deformation of Crystalline Solids**, 1991 [Modeling the Deformation of Crystalline Solids](#) Terry C. Lowe, 1991-01-01 Proceedings of a symposium held at the annual TMS meeting New Orleans Louisiana February 1991 The first papers contain theories and supporting experimentation for deformation and microstructure evolution The remainder concentrate on applications and experimental verification and are grouped into

**Constitutive Models of Deformation** J. Chandra, Ram P. Srivastav, 1987-01-01

**Multiscale Modeling in Continuum Mechanics and Structured Deformations** Gianpetro Del Piero, David R. Owen, 2014-05-04 The purpose of the book is to present some recent progress in two active and related areas of continuum mechanics fracture mechanics and structured deformations The book may be divided into two parts The first part deals with the theory of structured deformations a basic concept that can be used to describe smooth and nonsmooth geometrical changes at different length scales including for example both slip and microslip and of particular interest in the second part of this course both macroscopic fracture and microfracture The work presents an updated account of the state of the art in the subject

*Nonlinear Elastic and Inelastic Models for Shock Compression of Crystalline Solids* John D. Clayton, 2019-05-17 This book describes thermoelastic and inelastic deformation processes in crystalline solids undergoing loading by shock compression Constitutive models with a basis in geometrically nonlinear continuum mechanics supply these descriptions Large deformations such as finite strains and rotations are addressed The book covers dominant mechanisms of nonlinear thermoelasticity dislocation plasticity deformation twinning fracture flow and other structure changes Rigorous derivations of theoretical results are provided with approximately 1300 numbered equations and an extensive bibliography of over 500 historical and modern references spanning from the 1920s to the present day Case studies contain property data as well as analytical and numerical solutions to shock compression problems for different materials Such materials are metals ceramics and minerals single crystalline and polycrystalline The intended audience of this book is practicing scientists physicists engineers materials scientists and applied mathematicians involved in advanced research on shock compression of solid materials

**Modelling Small Deformations of Polycrystals** J. Gittus, J. Zarka, 2012-12-06 The scientific work of Jean Mandel has been exceptionally rich in the area of the mechanics of solids the subjects which he has treated have been extremely diverse from the theory of plasticity buckling soil mechanics

visco elasticity the theory of reduced models and thermo dynamics to percolation in porous media But throughout this comprehensive work Jean Mandel has always maintained his interest in forming connections between the properties of materials strength deformability viscosity and the properties of their basic constituents What is sometimes referred to in materials science as the transition from the microscopic to the macroscopic has for him been a very constant direction of research which he never ceased to encourage in the Laboratoire de Mecanique des Solides of which he was the director It is known that in the plasticity of metals permanent deformations must be sought in intercrystalline slip and more generally in dislocations and the various microstructural defects Before deformation of polycrystals is tackled it is necessary to understand the mechanisms which take place within the crystal the different systems of slip which may be activated and also the elementary mechanisms of twinning Jean Mandel has shown how to make the transition from the behaviour of the single crystal to that of the polycrystal and has given the relationships between the overall permanent deformation of the polycrystal and the plastic deformation of the single crystal

*Mathematical Modeling of Inelastic Deformation* J.F. Besseling, E. Van Der Giessen, 1994-05-15 Mathematical Modeling of Inelastic Deformation details the mathematical modeling of the inelastic behavior of engineering materials The authors use a thermodynamic approach to the subject and focus on crystalline materials but not to the exclusion of macro molecular solids Within a unified theory for small and large deformations they develop simple models such as the elastic perfectly plastic model as well as complex models dealing with anisotropic hardening The book includes finite element implementation of the theory and illustrates the implementation with examples from heat production and conduction processes

*Formability of Metallic Materials* D. Banabic, 2000-11-29 After a brief introduction into crystal plasticity the fundamentals of crystallographic textures and plastic anisotropy a main topic of this book are outlined A large chapter is devoted to formability testing both for bulk metal and sheet metal forming For the first time testing methods for plastic anisotropy of round bars and tubes are included A profound survey is given of literature about yield criteria for anisotropic materials up to most recent developments and the calculation of forming limits of anisotropic sheet metal Other chapters are concerned with properties of workpieces after metal forming as well as the fundamentals of the theory of plasticity and finite element simulation of metal forming processes The book is completed by a collection of tables of international standards for formability testing and of flow curves of metals which are most commonly used in metal forming It is addressed both to university and industrial readers

**Mathematical Modeling of Dislocation Behavior and Its Application to Crystal Plasticity Analysis** Tetsuya Ohashi, 2023-07-31 There are several textbooks and monographs on dislocations and the mechanical and physical properties of metals but most of them discuss the topics in terms of more or less one dimensional or scalar quantities However actual metallic materials are often three dimensionally heterogeneous in their microstructure and this heterogeneity has a significant impact on the macroscopic mechanical properties With advances in computational technology the complexity introduced by spatial heterogeneity in the

microstructure of metals can now be explored using numerical methods This book explains in simple terms the idea of extending the continuum mechanics theory of plastic deformation of crystals to three dimensional analysis and applying it to the analysis of more realistic models of metal microstructures This book links solid mechanics and materials science by providing clear physical pictures and mathematical models of plastic slip deformation and the accumulation of dislocations and atomic vacancies in metallic materials Both monotonic and cyclic loading cases are considered

**Programming Phase-Field Modeling** S. Bulent Biner, 2017-01-25 This textbook provides a fast track pathway to numerical implementation of phase field modeling a relatively new paradigm that has become the method of choice for modeling and simulation of microstructure evolution in materials It serves as a cookbook for the phase field method by presenting a collection of codes that act as foundations and templates for developing other models with more complexity Programming Phase Field Modeling uses the Matlab Octave programming package simpler and more compact than other high level programming languages providing ease of use to the widest audience Particular attention is devoted to the computational efficiency and clarity during development of the codes which allows the reader to easily make the connection between the mathematical formalism and the numerical implementation of phase field models The background materials provided in each case study also provide a forum for undergraduate level modeling simulations courses as part of their curriculum

**Large Plastic Deformation of Crystalline Aggregates** Cristian Teodosiu, 2014-05-04 The book gives a comprehensive view of the present ability to take into account the microstructure and texture evolution in building up engineering models of the plastic behaviour of polycrystalline materials at large strains It is designed for postgraduate students research engineers and academics that are interested in using advanced models of the mechanical behaviour of polycrystalline materials

*Handbook of Materials Modeling* Sidney Yip, 2007-11-17 This Handbook contains a set of articles introducing the modeling and simulation of materials from the standpoint of basic methods and studies The intent is to provide a compendium that is foundational to an emerging field of computational research a new discipline that may now be called Computational Materials This area has become sufficiently diverse that any attempt to cover all the pertinent topics would be futile Even with a limited scope the present undertaking has required the dedicated efforts of 13 Subject Editors to set the scope of nine chapters solicit authors and collect the manuscripts The contributors were asked to target students and non specialists as the primary audience to provide an accessible entry into the field and to offer references for further reading With no precedents to follow the editors and authors were only guided by a common goal to produce a volume that would set a standard toward defining the broad community and stimulating its growth The idea of a reference work on materials modeling surfaced in conversations with Peter Binfield then the Reference Works Editor at Kluwer Academic Publishers in the spring of 1999 The rationale at the time already seemed quite clear the field of computational materials research was taking off powerful computer capabilities were becoming increasingly available and many sectors of the scientific community were getting involved in the enterprise

*Multiscale Modeling of Heterogeneous Materials* Oana Cazacu, 2013-03-01 A material's various properties are based on its microscopic and nanoscale structures. This book provides an overview of recent advances in computational methods for linking phenomena in systems that span large ranges of time and spatial scales. Particular attention is given to predicting macroscopic properties based on subscale behaviors. Given the book's extensive coverage of multi-scale methods for modeling both metallic and geologic materials, it will be an invaluable reading for graduate students, scientists, and practitioners alike.

**Computational Methods for Microstructure-Property Relationships** Somnath Ghosh, Dennis Dimiduk, 2010-11-17 *Computational Methods for Microstructure Property Relationships* introduces state-of-the-art advances in computational modeling approaches for materials structure-property relations. Written with an approach that recognizes the necessity of the engineering computational mechanics framework, this volume provides balanced treatment of heterogeneous materials structures within the microstructural and component scales. Encompassing both computational mechanics and computational materials science disciplines, this volume offers an analysis of the current techniques and selected topics important to industry researchers such as deformation, creep, and fatigue of primarily metallic materials. Researchers, engineers, and professionals involved with predicting performance and failure of materials will find

*Computational Methods for Microstructure Property Relationships* a valuable reference.

**Large Deformations of Solids: Physical Basis and Mathematical Modelling** J. Gittus, J. Zarka, S. Nemat-Nasser, 2012-12-06

Crystal Growth - From Fundamentals to Technology Georg Müller, Jean-Jacques Métois, Peter Rudolph, 2004-07-07 The book contains 5 chapters with 19 contributions from internationally well-acknowledged experts in various fields of crystal growth. The topics are ranging from fundamentals, thermodynamic of epitaxy, growth kinetics, morphology, modeling to new crystal materials, carbon nanocrystals and nanotubes, biological crystals to technology. Silicon, Czochralski growth, oxide growth, III-IV epitaxy and characterization, point defects, X-ray imaging in situ, STM. It covers the treatment of bulk growth as well as epitaxy by anorganic and organic materials.

*Mathematical Modeling of Shock-Wave Processes in Condensed Matter* Tatiana Aleksandrovna Khantuleva, 2022-07-18 This book offers an interdisciplinary theoretical approach based on non-equilibrium statistical thermodynamics and control theory for mathematically modeling shock-induced out-of-equilibrium processes in condensed matter. The book comprises two parts. The first half of the book establishes the theoretical approach, reviewing fundamentals of non-equilibrium statistical thermodynamics and control theory of adaptive systems. The latter half applies the presented approach to a problem on shock-induced plane wave propagation in condensed matter. The result successfully reproduces the observed feature of waveform propagation in experiments which conventional continuous mechanics cannot access. Further, the consequent stress-strain relationships derived with relaxation and inertia effect in elastic-plastic transition determine material properties in transient regimes.

*Applied Crystallography, Proceedings Of The Xix Conference* Danuta Stroz, Henryk Morawiec, 2004-04-16 This book aims to propagate the newest achievements of applied

crystallography among crystallographers solid state physicists and materials scientists It presents application of structural studies to materials used in industrial practice rather than those associated with the crystal structure determination only The proceedings have been selected for coverage in Materials Science Citation Index Index to Scientific Technical Proceedings ISTP ISI Proceedings Index to Scientific Technical Proceedings ISTP CDROM version ISI Proceedings CC Proceedings Engineering Physical Sciences      **Crystals, Defects and Microstructures** Rob Phillips, 2001-02-22 Materials science has emerged as one of the central pillars of the modern physical sciences and engineering and is now even beginning to claim a role in the biological sciences A central tenet in the analysis of materials is the structure property paradigm which proposes a direct connection between the geometric structures within a material and its properties The increasing power of high speed computation has had a major impact on theoretical materials science and has permitted the systematic examination of this connection between structure and properties

## **Modeling The Deformation Of Crystalline Solids** Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the energy of words has are more evident than ever. They have the ability to inspire, provoke, and ignite change. Such could be the essence of the book **Modeling The Deformation Of Crystalline Solids**, a literary masterpiece that delves deep in to the significance of words and their impact on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

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### **Modeling The Deformation Of Crystalline Solids Introduction**

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