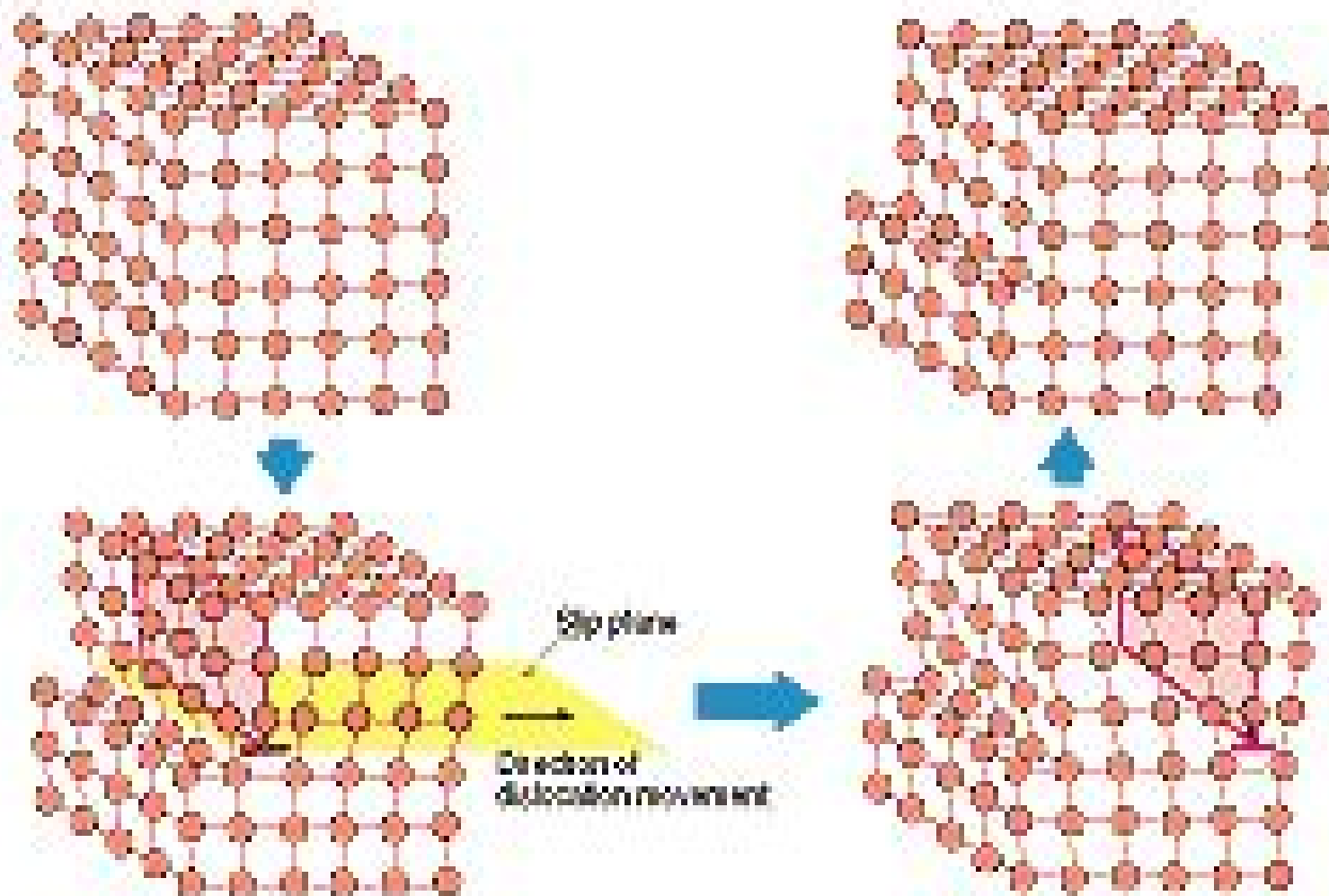


3A(3) Plastic Deformation Caused by Movement of Edge Dislocation



Large Plastic Deformation Of Crystalline Aggregates

H. Kitagawa, Y. Shibutani



Large Plastic Deformation Of Crystalline Aggregates:

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

Large Plastic Deformation of Crystalline Aggregates Cristian Teodosiu, 1997-11 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 **Finite**

Plastic Deformation of Crystalline Solids K. S. Havner, 1992-03-27 Publisher Description **Large Plastic**

Deformations: Fundamental Aspects and Applications to Metal Forming J.L. Raphanel, 2021-09-17 This volume covers topics involving large plastic deformation of metallic materials These proceedings offer an overview of the synergism achieved by combining microstructural characterization and understanding mechanical modelling and experiments numerical analysis and computation *The Physics of Large Deformation of Crystalline Solids* James F. Bell, 2013-03-13 Historically a

major problem for the study of the large deformation of crystalline solids has been the apparent lack of unity in experimentally determined stress strain functions The writer s discovery in 1949 of the unexpectedly high velocity of incremental loading waves in pre stressed large deformation fields emphasized to him the pressing need for the independent systematic experimental study of the subject to provide a firm foundation upon which physically plausible theories for the finite deformation of crystalline solids could be constructed Such a study undertaken by the writer at that time and continued uninterruptedly to the present led in 1956 to the development of the diffraction grating experiment which permitted for the first time the optically accurate determination of the strain time detail of non linear finite amplitude wave fronts propagating into crystalline solids whose prior history was precisely known These experimental diffraction grating studies during the past decade have led to the discovery that the uniaxial stress strain functions of 27 crystalline solids are unified in a single generalized stress strain function which is described much of it hitherto unpublished in the present monograph The detailed study of over 2 000 polycrystal and single crystal uni axial stress experiments in 27 crystalline solids in terms of the variation of a large number of pertinent parameters has provided new unified pat terns of understanding which it is hoped will be of interest and value to theorists and experimentalists alike **A Symposium on the Plastic Deformation of Crystalline**

Solids Mellon Institute of Industrial Research, 1950 **Field Theory of Multiscale Plasticity** Tadashi Hasebe, 2024-01-04 This unique book provides a concise and systematic treatment of foundational material on dislocations and metallurgy and an up to date discussion of multiscale modeling of materials which ultimately leads to the field theory of multiscale plasticity

FTMP Unlike conventional continuum models this approach addresses the evolving inhomogeneities induced by deformation typically as dislocation substructures like dislocation cells as well as their interplay at more than one scale This is an impressively visual text with many and varied examples and viewgraphs In particular the book presents a feasible constitutive model applicable to crystal plasticity based finite element method FEM simulations It will be an invaluable resource accessible to undergraduate and graduate students as well as researchers in mechanical engineering solid mechanics applied physics mathematics materials science and technology

IUTAM Symposium on Computational Mechanics of Solid Materials at Large Strains Christian Miehe, 2013-06-29 The steady increase in computational power induces an equally steady increase in the complexity of the engineering models and associated computer codes This particularly affects the modeling of the mechanical response of materials Material behavior is nowadays modeled in the strongly nonlinear range by taking into account finite strains complex hysteresis effects fracture phenomena and multiscale features Progress in this field is of fundamental importance for many engineering disciplines especially those concerned with material testing safety reliability and serviceability analyses of engineering structures In recent years many important achievements have been made in the field of the theoretical formulation the mathematical analysis and the numerical implementation of deformation processes in solids Computational methods and simulation techniques today play a central role in advancing the understanding of complex material behavior Research in the field of Computational Mechanics of Materials is concerned with the development of mathematical models and numerical solution techniques for the simulation of material response It is a very broad interdisciplinary field of science with inputs from traditional fields such as Applied Mechanics Applied Mathematics Materials Science Solid State Physics and Information Technology The intention of the IUTAM Symposium Computational Mechanics of Solid Materials at Large Strains held at the University of Stuttgart Germany from August 20-24 2001 was to give a state of the art and a survey about recent developments in this field and to create perspectives for future research trends

Elastoplasticity Theory Vlado A. Lubarda, 2001-07-16 Understanding the elastoplastic deformation of metals and geomaterials including the constitutive description of the materials and analysis of structure undergoing plastic deformation is an essential part of the background required by mechanical civil and geotechnical engineers as well as materials scientists However most books address the subject

Mechanics of Solids and Materials Robert Asaro, Vlado A. Lubarda, 2006-01-16 This 2006 book combines modern and traditional solid mechanics topics in a coherent theoretical framework

IUTAM Symposium on Mesoscopic Dynamics of Fracture Process and Materials Strength H. Kitagawa, Y. Shibutani, 2013-11-11 This volume contains the papers presented at the IUTAM Symposium of Mesoscopic Dynamics of Fracture Process and Materials Strength held in July 2003 at the Hotel Osaka Sun Palace Osaka Japan The Symposium was proposed in 2001 aiming at organizing concentrated discussions on current understanding of fracture process and inhomogeneous deformation governing the materials strength with emphasis on the

mesoscopic dynamics associated with evolutionary mechanical behaviour under micro macro mutual interaction The decision of the General Assembly of International Union of Theoretical and Applied Mechanics IUT AM to accept our proposal was well timed and attracted attention Driven by the development of new theoretical and computational techniques various novel challenges to investigate the mesoscopic dynamics have been actively done recently including large scaled 3D atomistic simulations discrete dislocation dynamics and other micro mesoscopic computational analyses The Symposium attracted sixty six participants from eight countries and forty two papers were presented The presentations comprised a wide variety of fundamental subjects of physics mechanical models computational strategies as well as engineering applications Among the subjects discussed are a dislocation patterning b crystal plasticity c characteristic fracture of amorphous nanocrystal d nano indentation e ductile brittle transition f ab initio calculation g computational methodology for multi scale analysis and others

Generalized Continua and Dislocation Theory Carlo Sansour, Sebastian Skatulla, 2012-05-27 Defects dislocations and the general theory Approaches to generalized continua Generalized continuum modelling of crystal plasticity Introduction to discrete dislocation dynamics The book contains four lectures on generalized continua and dislocation theory reflecting the treatment of the subject at different scales G Maugin provides a continuum formulation of defects at the heart of which lies the notion of the material configuration and the material driving forces of in homogeneities such as dislocations disclinations point defects cracks phase transition fronts and shock waves C Sansour and S Skatulla start with a compact treatment of linear transformation groups with subsequent excursion into the continuum theory of generalized continua After a critical assessment a unified framework of the same is presented The next contribution by S Forest gives an account on generalized crystal plasticity Finally H Zbib provides an account of dislocation dynamics and illustrates its fundamental importance at the smallest scale In three contributions extensive computational results of many examples are presented Scientific and Technical Aerospace Reports, 1972 **Plasticity and Textures** W. Gambin, 2013-04-17 The classical phenomenological theory of plastically anisotropic materials has passed a long way from the work of von Mises presented in 1928 and the Hill formulation given in 1948 to the latest papers on large elastic plastic deformations of anisotropic metal sheets A characteristic feature of this approach is a linear flow rule and a quadratic yield criterion Mathematical simplicity of the theory is a reason of its numerous applications to the analysis of engineering structures during the onset of plastic deformations However such an approach is not sufficient for description of the metal forming processes when a metal element undergoes very large plastic strains If we take an initially isotropic piece of metal it becomes plastically anisotropic during the forming process and the induced anisotropy progressively increases This fact strongly determines directions of plastic flow and it leads to an unexpected strain localization in sheet elements To explain the above it is necessary to take into account a polycrystalline structure of the metal plastic slips on slip systems of grains crystallographic lattice rotations and at last a formation of textures and their evolution during the whole deformation process In short it is necessary to

introduce the plasticity of crystals and polycrystals The polycrystal analysis shows that when the advanced plastic strains take place some privileged crystallographic directions called a crystallographic texture occur in the material The texture formation and evolution are a primary reason for the induced plastic anisotropy in pure metals

Continuum Mechanics and Theory of Materials Peter Haupt, 2013-03-14 The new edition includes additional analytical methods in the classical theory of viscoelasticity This leads to a new theory of finite linear viscoelasticity of incompressible isotropic materials Anisotropic viscoplasticity is completely reformulated and extended to a general constitutive theory that covers crystal plasticity as a special case

Localization and Fracture Phenomena in Inelastic Solids Piotr Perzyna, 2014-05-04 The book contains the discussion of some important aspects of localization and fracture phenomena in inelastic solids single crystals polycrystalline solids and geological materials Physical and experimental foundations of crystal plasticity are given Constitutive modelling of dissipative solids for description of localization and fracture is presented Various regularization methods for solution of the initial boundary value problems are outlined Numerical solutions based on finite element method of particular evolution problems with localization of plastic deformation are considered

Introduction to Non-linear Mechanics Claude Stolz, 2024-02-29 This book presents an introduction to the non linear mechanics of materials focusing on a unified energetical approach It begins by summarizing the framework of a thermodynamic description of continua including a description of the kinematics of deformation and a summary of the equations of motion After a short description of the motion of the system and the mechanical interaction the book introduces the Lagrangean and Hamiltonian functionals of the system transitioning to the quasistatic characterization with emphasis on the role of potential energy and pseudo potential of dissipation The framework is then extended to fracture and damage mechanics with a similar energetical approach proposed for material damage and wear The book looks at homogenization in non linear mechanics for locally plastic or damaged material with an analysis of stability and bifurcation of the equilibrium path Lastly inverse problems in non linear mechanics are introduced using optimal control theory All the concepts introduced in the book are illustrated using analytical solutions on beams rods plates or using spherical and cylindrical symmetries Graduate students and researchers working on continuum mechanics and interested in a deeper understanding of materials damage wear and fatigue will find this book instructive and informative

Transactions of the Faraday Society Faraday Society, 1918

Transactions Faraday Society, 1928

Advances in Material Forming Francisco Chinesta, Elias Cueto, 2007-10-27 This book groups the main advances in material forming considering different processes both conventional and non conventional It focuses on polymers composites and metals which are analyzed from the state of the art Special emphasis is devoted to the contributions of the European Scientific Association for Material Forming ESAFORM during the last decade and in particular the ones coming from its annual international conference

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