
REVERSIBLE CRYSTAL PLASTICITY

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Reversible Crystal Plasticity

John D. Clayton



Reversible Crystal Plasticity:

Reversible Crystal Plasticity Vladimir Boyko, Ruvin Garber, Arnold Kossevich, 1997-05-09 Market Research scientists and students in materials science physical metallurgy and solid state physics This detailed monograph presents the theory of reversible plasticity as a new direction of development in crystal physics It features a unique integration of traditional concepts and new studies of high temperature superconductors plus in depth analyses of various related phenomena Among the topics discussed are elastic twinning discovered by Dr Garber thermoelastic martensite transformation superelasticity shape memory effects the domain structure of ferroelastics and elastic aftereffect Partial Contents 1 Transformation of Dislocations Dislocation Description of a Phase Transformation Front 2 Dislocation Theory of Elastic Twinning Twinning of Crystals Principal Definitions 3 Statics and Dynamics of Elastic Twinning Discovery of Elastic Twinning Verification of the Validity of the Static Theory in a Description of the Macroscopic Behavior of an Elastic Twin 4 Thermoelastic Martensitic Transformation Martensitic Transformation a Diffusionless Process of Rebuilding the Crystal Lattice 5 Superelasticity and the Shape Memory Effect Main Characteristics of Superelasticity and Shape Memory Effects 6 Reversible Plasticity of Ferroelastics Ferroelastics Main Definitions 7 Investigation of Reversible Plasticity of Crystals by the Acoustic Emission Method Emission of Sound by Moving Dislocations and Their Pileups Methods Used in Experimental Investigations of the Acoustic Emission Generated by a Single Twin Acoustic Emission Associated with Elastic Twinning 8 Influence of Reversible Plasticity of Superconductors on Their Physical Properties Reversible Changes in the Parameters of Traditional Superconductors under the Action of Elastic Stresses Influence of Magnetic Fields on Reversible Changes in the Parameters

Crystal Plasticity Wojciech Polkowski, 2021-04-27 The book presents a collection of 25 original papers including one review paper on state of the art achievements in the theory and practice of crystals plasticity The articles cover a wide scope of research on materials behavior subjected to external loadings starting from atomic scale simulations and a new methodological aspect to experiments on a structure and mechanical response upon a large scale processing Thus a presented contribution of researchers from 18 different countries can be virtually divided into three groups namely i modelling and simulation ii methodological aspects and iii experiments on process structure properties relationship Furthermore a large variety of materials are investigated including more conventional steels copper titanium nickel aluminum and magnesium alloys and advanced ones composites or high entropy alloys The book should be interested for senior students researchers and engineers working within discipline of materials science and solid state physics of crystalline materials

Strengthening Mechanisms in Crystal Plasticity Ali Argon, 2008 Technologically important metals and alloys have been strengthened throughout history by empirical means The scientific bases of the central mechanisms of such forms of strengthening developed over the past several decades are presented here through mechanistic models and associated experimental results

Applied Nanoindentation in Advanced Materials Atul Tiwari, Sridhar

Natarajan,2017-10-30 Research in the area of nanoindentation has gained significant momentum in recent years but there are very few books currently available which can educate researchers on the application aspects of this technique in various areas of materials science Applied Nanoindentation in Advanced Materials addresses this need and is a comprehensive self contained reference covering applied aspects of nanoindentation in advanced materials With contributions from leading researchers in the field this book is divided into three parts Part one covers innovations and analysis and parts two and three examine the application and evaluation of soft and ceramic like materials respectively Key features A one stop solution for scholars and researchers to learn applied aspects of nanoindentation Contains contributions from leading researchers in the field Includes the analysis of key properties that can be studied using the nanoindentation technique Covers recent innovations Includes worked examples Applied Nanoindentation in Advanced Materials is an ideal reference for researchers and practitioners working in the areas of nanotechnology and nanomechanics and is also a useful source of information for graduate students in mechanical and materials engineering and chemistry This book also contains a wealth of information for scientists and engineers interested in mathematical modelling and simulations related to nanoindentation testing and analysis

Introduction to Ferroic Materials Vinod Wadhawan,2000-12-21 Ferroic materials are important not only because of the improved understanding of condensed matter but also because of their present and potential device applications This book presents a unified description of ferroic materials at an introductory level with the unifying factor being the occurrence of nondisruptive phase transitions in crystals that alter point group symmetry The book also aims to further systematize the subject of ferroic materials employing some formal carefully worded definitions and classification schemes The basic physical principles leading to the wide ranging applications of ferroic materials are also explained while placing extra emphasis on the utilitarian role of symmetry in materials science *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 *Some Developments in Crystal Plasticity* Arun R. Srinivasa,1991 Collective Effects in Condensed Matter Physics Vladimir V. Kiselev,2018-06-11

This monograph offers a concise overview of the theoretical description of various collective phenomena in condensed matter physics. These effects include the basic electronic structure in solid state physics, lattice vibrations, superconductivity, light-matter interaction, and more advanced topics such as martensitic transitions. **Nonlinear Mechanics of Crystals** John D. Clayton, 2010-11-01. This book describes behavior of crystalline solids primarily via methods of modern continuum mechanics. Emphasis is given to geometrically nonlinear descriptions, i.e. finite deformations. Primary topics include anisotropic crystal elasticity, plasticity, and methods for representing effects of defects in the solid on the material's mechanical response. Defects include crystal dislocations, point defects, twins, voids or pores, and micro-cracks. Thermoelastic, dielectric, and piezoelectric behaviors are addressed. Traditional and higher-order gradient theories of mechanical behavior of crystalline solids are discussed. Differential geometric representations of kinematics of finite deformations and lattice defect distributions are presented. Multi-scale modeling concepts are described in the context of elastic and plastic material behavior. Representative substances towards which modeling techniques may be applied are single and polycrystalline metals and alloys, ceramics, and minerals. This book is intended for use by scientists and engineers involved in advanced constitutive modeling of nonlinear mechanical behavior of solid crystalline materials. Knowledge of fundamentals of continuum mechanics and tensor calculus is a prerequisite for accessing much of the text. This book could be used as supplemental material for graduate courses on continuum mechanics, elasticity, plasticity, micromechanics, or dislocation mechanics for students in various disciplines of engineering, materials science, applied mathematics, and condensed matter physics. **Nuclear Science Abstracts**, 1976-06.

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