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Leonid M. Zubov

# Nonlinear Theory of Dislocations and Disclinations in Elastic Bodies



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# Nonlinear Theory Of Dislocations And Disclinations In Elastic Bodies

**International Symposium on  
Continuum Models of Discrete  
Systems 1995, Varna,  
Bulgaria, Konstantin Z. Markov**

## **Nonlinear Theory Of Dislocations And Disclinations In Elastic Bodies:**

Nonlinear Theory of Dislocations and Disclinations in Elastic Bodies Leonid M. Zubov, 1997-10-10 The author applies methods of nonlinear elasticity to the investigation of the defects in the crystal structure of solids such as dislocations and disclinations. These defects characterize mainly the plastic and strength properties of many constructional materials. Contrary to the well developed nonlinear continual theory of dislocations continuously distributed in the body which is based on geometrical ideas, the nonlinear analysis of isolated dislocations and disclinations is less developed; it is given for the first time in this book. This analysis is essential since the deformation near the axes of an isolated defect is rather big so the linear theory is not applicable here. The general theory of Volterra's dislocations in elastic media under large deformations is developed. A number of exact solutions of the problems are found. The nonlinear approach to investigating the isolated defects produces the results that often differ qualitatively from those of the linear theory. The book addresses students and researchers.

**Nonlinear Theory of Dislocations and Disclinations in Elastic Bodies** Leonid M. Zubov, 2008-09-11 The author applies methods of nonlinear elasticity to investigate the defects in the crystal structure of solids such as dislocations and disclinations that characterize the plastic and strength properties of many materials. Contrary to the geometrically motivated nonlinear theory of dislocations continuously distributed over the body, nonlinear analysis of isolated dislocations and disclinations is less developed; it is given for the first time in this book and in a form accessible to both students and researchers. The general theory of Volterra's dislocations in elastic media under large deformations is developed. A number of exact solutions are found. The nonlinear approach to investigating the isolated defects produces results that often differ qualitatively from those of the linear theory.

## **Advances in Linear and Nonlinear Continuum and Structural**

**Mechanics** Holm Altenbach, Victor Eremeyev, 2023-12-03 This book offers a current image of modern mechanics. The book reflects current state of the art in the field of continuum mechanics and mechanics of structures including recent achievements in classic and non classic approaches. The chapters are written by leading specialist in the field so the book collects cutting edge investigations in the field. As a target we consider the society starting from beginners i.e. master and PhD students and also leaders in the field that is professors of universities and civil mechanical and aerospace engineers.

*Shell Structures: Theory and Applications Volume 4* Wojciech Pietraszkiewicz, Wojciech Witkowski, 2017-10-30 Shells are basic structural elements of modern technology and everyday life. Examples of shell structures in technology include automobile bodies, water and oil tanks, pipelines, silos, wind turbine towers and nanotubes. Nature is full of living shells such as leaves of trees, blooming flowers, seashells, cell membranes or wings of insects. In the human body, arteries, the eye shell, the diaphragm, the skin and the pericardium are all shells as well. *Shell Structures: Theory and Applications Volume 4* contains 132 contributions presented at the 11th Conference on Shell Structures: Theory and Applications, Gdansk, Poland, 11-13 October 2017. The papers reflect a wide spectrum of scientific and engineering problems from theoretical modelling through

strength stability and dynamic behaviour numerical analyses biomechanic applications up to engineering design of shell structures Shell Structures Theory and Applications Volume 4 will be of interest to academics researchers designers and engineers dealing with modelling and analyses of shell structures It may also provide supplementary reading to graduate students in Civil Mechanical Naval and Aerospace Engineering **Handbook of Graphene, Volume 2** Tobias

Stauber,2019-06-28 The second volume in a series of handbooks on graphene research and applications Graphene is a valuable nanomaterial used in technology This handbook features graphene topics related to Physics Chemistry and Biology The Handbook of Graphene Volume 2 delivers an overview on the numerous and diverse graphene research directions and innovations The handbook covers a range of areas including graphene in optoelectronic devices and as a detector of biomolecules **Geometry of Incompatible Deformations** ,2019-03-04 No detailed description available for Geometry of

Incompatible Deformations **Advanced Methods of Continuum Mechanics for Materials and Structures** Konstantin Naumenko,Marcus Aßmus,2016-05-12 This volume presents a collection of contributions on advanced approaches of continuum mechanics which were written to celebrate the 60th birthday of Prof Holm Altenbach The contributions are on topics related to the theoretical foundations for the analysis of rods shells and three dimensional solids formulation of constitutive models for advanced materials as well as development of new approaches to the modeling of damage and fractures *Shell-like Structures* Holm Altenbach,Victor Eremeyev,2016-08-09 The book presents mathematical and mechanical aspects of the theory of plates and shells applications in civil aero space and mechanical engineering as well in other areas The focus relates to the following problems comprehensive review of the most popular theories of plates and shells relations between three dimensional theories and two dimensional ones presentation of recently developed new refined plates and shells theories for example the micropolar theory or gradient type theories modeling of coupled effects in shells and plates related to electromagnetic and temperature fields phase transitions diffusion etc applications in modeling of non classical objects like for example nanostructures presentation of actual numerical tools based on the finite element approach

**Shell Structures: Theory and Applications** Wojciech Pietraszkiewicz,Jaroslav Gorski,2013-09-18 Shells are basic structural elements of modern technology and everyday life Examples are automobile bodies water and oil tanks pipelines aircraft fuselages nanotubes graphene sheets or beer cans Also nature is full of living shells such as leaves of trees blooming flowers seashells cell membranes the double helix of DNA or wings of insect **Recent Developments in the Theory of Shells** Holm Altenbach,Jacek Chróścielewski,Victor A. Eremeyev,Krzysztof Wiśniewski,2019-09-25 This book commemorates the 80th birthday of Prof W Pietraszkiewicz a prominent specialist in the field of general shell theory Reflecting Prof Pietraszkiewicz's focus the respective papers address a range of current problems in the theory of shells In addition they present other structural mechanics problems involving dimension reduced models Lastly several applications are discussed including material models for such dimension reduced structures **Advances in Mechanics of Microstructured Media**

**and Structures** Francesco dell'Isola, Victor A. Eremeyev, Alexey Porubov, 2018-02-27 This book is an homage to the pioneering works of E. Aifantis and G. Maugin in the area of analytical description of generalized continua. It presents a collection of contributions on micropolar, micromorphic and strain gradient media, media with internal variables, metamaterials, beam lattices, liquid crystals and others. The main focus is on wave propagation, stability problems, homogenization and relations between discrete and continuous models.

**Wave Processes in Solids with Microstructure** Vladimir I. Erofeev, 2003. *Wave Processes in Solids with Microstructure* is useful for undergraduates, graduate students, researchers and practitioners in the mechanics of solids as well as in physical and technical acoustics.

**Mechanics of Generalized Continua** Holm Altenbach, Gérard A. Maugin, Vladimir Erofeev, 2011-04-02. This collection on *Mechanics of Generalized Continua* from *Micromechanical Basics to Engineering Applications* brings together leading scientists in this field from France, Russian Federation and Germany. The attention in this publication is focussed on the most recent research items, i.e. new models, application of well known models to new problems, micro-macro aspects, computational effort, possibilities to identify the constitutive equations and old problems with incorrect or non-satisfying solutions based on the classical continua assumptions.

**Continuum Mechanics Through the Twentieth Century** Gerard A. Maugin, 2013-04-08. This overview of the development of continuum mechanics throughout the twentieth century is unique and ambitious. Utilizing a historical perspective, it combines an exposition on the technical progress made in the field and a marked interest in the role played by remarkable individuals and scientific schools and institutions on a rapidly evolving social background. It underlines the newly raised technical questions and their answers and the ongoing reflections on the bases of continuum mechanics associated or in competition with other branches of the physical sciences including thermodynamics. The emphasis is placed on the development of a more realistic modeling of deformable solids and the exploitation of new mathematical tools. The book presents a balanced appraisal of advances made in various parts of the world. The author contributes his technical expertise, personal recollections and international experience to this general overview, which is very informative albeit concise.

*Proceedings of the Eighth International Symposium on Continuum Models and Discrete Systems*. International Symposium on Continuum Models of Discrete Systems, 1995, Varna, Bulgaria, Konstantin Z. Markov, 1996. The purpose of this symposium is to bring together scientists working on continuum theories of discrete mechanical and thermodynamical systems in the realm of mathematics, theoretical and applied mechanics, physics, material science and engineering. It aims to join together the divergent languages, questions and methods developed in the respective disciplines and to stimulate broad interdisciplinary exchange of ideas and results. The main topics discussed in the lectures concern thermodynamics, transport theory, statistical mechanics, continuum mechanics of complex fluids and deformable solids with microstructure, continuum theory of living structures, defect dynamics, synergetics, solitons, coherent structures, dislocations and plasticity, fundamentals of fracture mechanics.

**Shell Structures: Theory and Applications (Vol. 2)** Wojciech Pietraszkiewicz, Ireneusz

Kreja,2009-09-22 Shell Structures Theory and Applications Volume 2 contains 77 contributions from over 17 countries reflecting a wide spectrum of scientific and engineering problems of shell structures The papers are divided into six broad groups 1 General lectures 2 Theoretical modeling 3 Stability 4 Dynamics 5 Numerical analysis 6 Engineering

Nanostructured Metals and Alloys S H Whang,2011-03-22 Tensile strength fatigue strength and ductility are important properties of nanostructured metallic materials which make them suitable for use in applications where strength or strength to weight ratios are important Nanostructured metals and alloys reviews the latest technologies used for production of these materials as well as recent advances in research into their structure and mechanical properties One of the most important issues facing nanostructured metals and alloys is how to produce them Part one describes the different methods used to process bulk nanostructured metals and alloys including chapters on severe plastic deformation mechanical alloying and electrodeposition among others Part two concentrates on the microstructure and properties of nanostructured metals with chapters studying deformation structures such as twins microstructure of ferrous alloys by equal channel angular processing and characteristic structures of nanostructured metals prepared by plastic deformation In part three the mechanical properties of nanostructured metals and alloys are discussed with chapters on such topics as strengthening mechanisms nanostructured metals based on molecular dynamics computer simulations and surface deformation Part four focuses on existing and developing applications of nanostructured metals and alloys covering topics such as nanostructured steel for automotives steel sheet and nanostructured coatings by spraying With its distinguished editor and international team of contributors Nanostructured metals and alloys is a standard reference for manufacturers of metal components as well as those with an academic research interest in metals and materials with enhanced properties

*Theory of Elasticity and Plasticity* Valentin Molotnikov,Antonina Molotnikova,2021-04-12 This book serves as a core text for university curricula in solid body mechanics and at the same time examines the main achievements of state of the art research in the mechanics of elastic and non elastic materials This latter goal of the book is achieved through rich bibliographic references many from the authors own work authors Distinct from similar texts there are no claims in this volume to a single universal theory of plasticity However solutions are given to some new problems and to the construction of models useful both in pedagogic terms for students and practical terms for professional design engineers Examples include the authors decisions about the Brazilian test stability of rock exposure and pile foundations Designed for both upper level university students and specialists in the mechanics of deformable hard body the material in this book serves as a source for numerous topics of course and diploma concentration

**Modeling, Synthesis and Fracture of Advanced Materials for Industrial and Medical Applications** Sergei M. Aizikovitch,Holm Altenbach,Victor Eremeyev,Michael Vincent Swain,Alexander Galybin,2020-08-12 This book gathers papers presented at the international workshop PMSDAM 19 The respective contributions offer valuable insights for researchers working on numerical solutions to advanced materials problems The problems concerning the

remineralization of teeth are considered Of particular interest are articles exploring topics at the interface of different disciplines     Recent Approaches in the Theory of Plates and Plate-Like Structures Holm Altenbach, Svetlana Bauer, Victor A. Eremeyev, Gennadi I. Mikhasev, Nikita F. Morozov, 2022-01-01 This book presents the various approaches in establishment the basic equations of one and two dimensional structural elements In addition the boundaries of validity of the theories and the estimation of errors in approximate theories are given Many contributions contain not only new theories but also new applications which makes the book interesting for researcher and graduate students

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