

Selected Topics in Nonlinear Wave Mechanics

**C.I. Christov
A. Guran**
Editors

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Selected Topics In Nonlinear Wave Mechanics

M. Barone, F. Selleri



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Proceedings of the Estonian Academy of Sciences, Physics and Mathematics, 2003-03 **Variational and Extremum Principles in Macroscopic Systems** Stanislaw Sieniutycz, Henrik Farkas, 2010-07-07 Recent years have seen a

growing trend to derive models of macroscopic phenomena encountered in the fields of engineering physics chemistry ecology self organisation theory and econophysics from various variational or extremum principles Through the link between the integral extremum of a functional and the local extremum of a function explicit for example in the Pontryagin s maximum principle variational and extremum principles are mutually related Thus it makes sense to consider them within a common context The main goal of Variational and Extremum Principles in Macroscopic Systems is to collect various mathematical formulations and examples of physical reasoning that involve both basic theoretical aspects and applications of variational and extremum approaches to systems of the macroscopic world The first part of the book is focused on the theory whereas the second focuses on applications The unifying variational approach is used to derive the balance or conservation equations phenomenological equations linking fluxes and forces equations of change for processes with coupled transfer of energy and substance and optimal conditions for energy management A unique multidisciplinary synthesis of variational and extremum principles in theory and application A comprehensive review of current and past achievements in variational formulations for macroscopic processes Uses Lagrangian and Hamiltonian formalisms as a basis for the exposition of novel approaches to transfer and conversion of thermal solar and chemical energy

Acoustic Interactions With Submerged Elastic Structures: Part Iv: Nondestructive Testing, Acoustic Wave Propagation And Scattering Anders Bostrom, Ardeshir Guran, Oswald Leroy, Gerard Maze, 2002-07-09 This series of volumes constitutes an outstanding collection of contributions by the most active research workers in the area of acoustics and mechanics It brings the reader up to date on the status of the various aspects of research in this field The volumes should preserve their value for a long time as they represent a monument to the achievements of human research capabilities in the underwater acoustics aspects of the environment

Wave Processes in Solids with Microstructure Vladimir I. Erofeyev, 2003 1 The fundamental hypothesis of microstructured elastic solids Structural phenomenological model 1 1 Mathematical models of solids with microstructure 1 2 Definition of material constants 2 Gradient elasticity media Dispersion Dissipation Non linearity 2 1 Dynamic equations Energy and momentum variation law 2 2 Dispersion properties of longitudinal and shear waves Surface Rayleigh waves 2 3 Dissipative properties 2 4 Nonlinear plain stationary waves 2 5 Quasi plain wave beams 2 6 Self modulation of quasi harmonic shear waves 2 7 Resonant interaction of quasi harmonic waves 2 8 Noise waves 3 Gradient elasticity media Damaged medium Magnetoelasticity 3 1 Waves in damaged medium with microstructure 3 2 Magneto elastic waves in the medium with microstructure 4 Cosserat continuum 4 1 Basic equations of micropolar elasticity theory 4 2 Dispersion properties of volume waves 4 3 Wave reflection from the free interface of micropolar halfspace Rayleigh surface waves 4 4 Normal waves in a micropolar layer 4 5 Nonlinear resonant interaction of longitudinal and rotation waves 4 6 Waves in Cosserat pseudocontinuum 4 7 Waves in the Cosserat continuum with symmetric stress tensor 5 Waves in two component mixture of solids 5 1 Dispersion properties 5 2 Some nonlinear wave effects 6 Waves in micromorphic solids 6 1 Dynamics

equations 6 2 Different types of volume waves and their dispersion properties 6 3 Surface shear waves in the gradient elastic half space with surface energy 7 Elasto plastic waves in the medium with dislocations 7 1 Equations of dynamics 7 2 Dispersion properties 7 3 Some nonlinear problems 7 4 Correlation of elasto plastic continuum and Cosserat continuum 7 5 Example of research of the influence of dislocations on dispersion and damping of ultrasound in solid body 8 Wave problems of micropolar hydrodynamics 8 1 Rotational waves in micropolar liquids 8 2 Shear surface wave at the interface of elastic body and micropolar liquid 8 3 Shear surface wave at the interface between elastic half space and conducting viscous liquid in a magnetic field *Mathematical Reviews* ,2005 Configurational Mechanics V.K. Kalpakides,G.A. Maugan,2004-11-23 This book comprises papers that were presented at the Symposium on Configurational Mechanics during the 5th EUROMECH Soil Mechanics Conference in Thessaloniki in August 2003 Configurational or material mechanics in contrast to Newtonian mechanics in Euclidean space concerns any sort of change or motion in the material configuration This framework provides a novel and unifying view on otherwise diverse disciplines like fracture mechanics phase transitions plasticity and dislocation theory In addition configurational mechanics can be used in computations because it provides a fruitful interpretation of the field equations in the discretized space This volume contains eleven contributions from specialists from around Europe Articles concern both theoretical and computational mechanics electroplasticity magnetoelasticity elastoplasticity as well as granular multiphase and micropolar media **Frontiers of Fundamental Physics** M. Barone,F. Selleri,2012-12-06 The Olympia conference Frontiers of Fundamental Physics was a gathering of about hundred scientists who carry on their research in conceptually important areas of physical science they do fundamental physics Most of them were physicists but also historians and philosophers of science were well represented An important fraction of the participants could be considered heretical because they disagreed with the validity of one or several fundamental assumptions of modern physics Common to all participants was an excellent scientific level coupled with a remarkable intellectual honesty we are proud to present to the readers this certainly unique book Alternative ways of considering fundamental matters should of course be vitally important for the progress of science unless one wanted to admit that physics at the end of the XXth century has already obtained the final truth a very unlikely possibility even if one accepted the doubtful idea of the existence of a final truth The merits of the Olympia conference should therefore not be judged a priori in a positive or in a negative way depending on one's refusal or acceptance respectively but considered after reading the actual basic principles of contemporary science new proposals and evidences there presented They seem very important to us *Mechanics of Material Forces* Paul Steinmann,Gérard A. Maugin,2006-01-20 The notion dealt with in this volume of proceedings is often traced back to the late 19th century writings of a rather obscure scientist C V Burton A probable reason for this is that the painstaking deciphering of this author's paper in the Philosophical Magazine Vol 33 pp 191 204 1891 seems to reveal a notion that was introduced in mathematical form much later than that of local structural

rearrangement This notion obviously takes place on the material manifold of modern continuum mechanics It is more or less clear that seemingly different phenomena phase transition local destruction of matter in the form of the loss of local ordering such as in the appearance of structural defects or of the loss of cohesion by the appearance of damage or the extension of cracks plasticity material growth in the bulk or at the surface by accretion wear and the production of debris should enter a common framework where by pure logic the material manifold has to play a prominent role Finding the mathematical formulation for this was one of the great achievements of J D Eshelby He was led to consider the apparent but true motion or displacement of embedded material inhomogeneities and thus he began to investigate the driving force causing this motion or displacement something any good mechanician would naturally introduce through the duality inherent in mechanics since J L d Alembert

Wave Momentum And Quasi-particles In Physical Acoustics

Gerard A Maugin, Martine Rousseau, 2015-03-26 This unique volume presents an original approach to physical acoustics with additional emphasis on the most useful surface acoustic waves on solids The study is based on foundational work of L on Brillouin and application of the celebrated invariance theorem of Emmy Noether to an element of volume that is representative of the wave motion This approach provides an easy interpretation of typical wave motions of physical acoustics in bulk at surfaces and across interfaces in the form of the motion of associated quasi particles This type of motion Newtonian or not depends on the wave motion considered and on the original modeling of the continuum that supports it After a thoughtful review of Brillouin s fundamental ideas related to radiative stresses wave momentum and action and the necessary reminder on modern nonlinear continuum thermomechanics invariance theory and techniques of asymptotics a variety of situations and models illustrates the power and richness of the approach and its strong potential in applications Elasticity piezoelectricity and new models of continua with nonlinearity viscosity and some generalized features microstructure weak or strong nonlocality or unusual situations bounding surface with energy elastic thin film glued on a surface waveguide are considered exhibiting thus the versatility of the approach This original book offers an innovative vision and treatment of the problems of wave propagation in deformable solids It opens up new horizons in the theoretical and applied facets of physical acoustics

Topics in Ocean Physics A.R. Osborne, P. M. Rizzoli, 1982-01-01 Topics in Ocean Physics Configurational Forces

Gerard A. Maugin, 2016-04-19 Exploring recent developments in continuum mechanics Configurational Forces Thermomechanics Physics Mathematics and Numerics presents the general framework for configurational forces It also covers a range of applications in engineering and condensed matter physics The author presents the fundamentals of accepted standard continuum mechanics before introducing Eshelby material stress field theory variational formulations Noether s theorem and the resulting conservation laws In the chapter on complex continua he compares the classical perspective of B D Coleman and W Noll with the viewpoint linked to abstract field theory He then describes the important notion of local structural rearrangement and its relationship to Eshelby stress After looking at the relevance of Eshelby stress

in the thermodynamic description of singular interfaces the text focuses on fracture problems microstructured media systems with mass exchanges and electromagnetic deformable media The concluding chapters discuss the exploitation of the canonical conservation law of momentum in nonlinear wave propagation the application of canonical momentum conservation law and material force in numerical schemes and similarities of fluid mechanics and aerodynamics Written by a long time researcher in mechanical engineering this book provides a detailed treatment of the theory of configurational forces one of the latest and most fruitful advances in macroscopic field theories Through many applications it shows the depth and efficiency of this theory

Introduction to the Mathematical Physics of Nonlinear Waves Minoru

Fujimoto,2014-03-01 Nonlinear physics is a well established discipline in physics today and this book offers a comprehensive account of the basic soliton theory and its applications Although primarily mathematical the theory for nonlinear phenomena in practical environment

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

The Complexity of Dynamical Systems Johan Dubbeldam,Kirk Green,Daan Lenstra,2011-02-21

Written by recognized experts this edited book covers recent theoretical experimental and applied issues in the growing field of Complex Systems and Nonlinear Dynamics It is divided into two parts with the first section application based incorporating the theory of bifurcation analysis numerical computations of instabilities in dynamical systems and discussing experimental developments The second part covers the broad category of statistical mechanics and dynamical systems Several novel exciting theoretical and mathematical insights and their consequences are conveyed to the reader

College of Engineering University of Michigan. College of Engineering,1992 **Applied Wave Mathematics** Ewald Quak,Tarmo

Soomere,2009-08-29 This edited volume consists of twelve contributions related to the EU Marie Curie Transfer of Knowledge Project Cooperation of Estonian and Norwegian Scientific Centres within Mathematics and its Applications CENS CMA 2005 2009 der contract MTKD CT 2004 013909 which financed exchange visits to and from CENS the Centre for Nonlinear Studies at the Institute of Cybernetics of Tallinn University of Technology in Estonia Seven contributions describe

research highlights of CENS members two the work of members of CMA the Centre of Mathematics for Applications University of Oslo Norway as the partner institution of CENS in the Marie Curie project and three the work of foreign research fellows who visited CENS as part of the project The structure of the book reflects the distribution of the topics addressed Part I Waves in Solids Part II Mesoscopic Theory Part III Exploiting the Dissipation Inequality Part IV Waves in Fluids Part V Mathematical Methods The papers are written in a tutorial style intended for non specialist researchers and students where the authors communicate their own experiences in tackling a problem that is currently of interest in the scientific community The goal was to produce a book which highlights the importance of applied mathematics and which can be used for educational purposes such as material for a course or a seminar To ensure the scientific quality of the contributions each paper was carefully viewed by two international experts Special thanks go to all authors and referees without whom making this book would not have been possible

Selected Topics In Nonlinear Wave Mechanics Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the ability of words has be evident than ever. They have the capacity to inspire, provoke, and ignite change. Such is the essence of the book **Selected Topics In Nonlinear Wave Mechanics**, a literary masterpiece that delves deep to the significance of words and their effect on our lives. Compiled 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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