Selected Topics in Nonlinear Wave Mechanics

C.I. Christov
A. Guran

Editors

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Anders Bostrom,Ardeshir Guran,Oswald Leroy,Gerard Maze

Selected Topics In Nonlinear Wave Mechanics:

   Selected Topics in Nonlinear Wave Mechanics C.I. Christov,Arde Guran,2001-10-26 This book gives an overview ofthe current state of nonlinear wave mechanics with emphasis on strong discontinuities shock waves and localized self preserving shapes solitons in both elastic and fluid media The exposition is intentionallyat a detailed mathematical and physical level our expectation being that the reader will enjoy coming to grips in a concrete manner with advances in this fascinating subject Historically modern research in nonlinear wave mechanics began with the famous 1858 piston problem paper of Riemann on shock waves and con tinued into the early part of the last century with the work of Hadamard Rankine and Hugoniot After WWII research into nonlinear propagation of dispersive waves rapidly accelerated with the advent of computers Works of particular importance in the immediate post war years include those of von Neumann Fermi and Lax Later additional contributions were made by Lighthill Glimm Strauss Wendroff and Bishop Dispersion alone leads to shock fronts of the propagating waves That the nonlinearity can com pensate for the dispersion leading to propagation with a stable wave having constant velocity and shape solitons came as a surprise A solitary wave was first discussed by J Scott Russell in 1845 in Report of British Asso ciations for the Advancement of Science He had while horseback riding observed a solitary wave travelling along a water channel and followed its unbroken progress for over a mile   **Selected Topics in Nonlinear Wave Mechanics** C.I. Christov,Arde Guran,2012-12-06 This book gives an overview ofthe current state of nonlinear wave mechanics with emphasis on strong discontinuities shock waves and localized self preserving shapes solitons in both elastic and fluid media The exposition is intentionallyat a detailed mathematical and physical level our expectation being that the reader will enjoy coming to grips in a concrete manner with advances in this fascinating subject Historically modern research in nonlinear wave mechanics began with the famous 1858 piston problem paper of Riemann on shock waves and con tinued into the early part of the last century with the work of Hadamard Rankine and Hugoniot After WWII research into nonlinear propagation of dispersive waves rapidly accelerated with the advent of computers Works of particular importance in the immediate post war years include those of von Neumann Fermi and Lax Later additional contributions were made by Lighthill Glimm Strauss Wendroff and Bishop Dispersion alone leads to shock fronts of the propagating waves That the nonlinearity can com pensate for the dispersion leading to propagation with a stable wave having constant velocity and shape solitons came as a surprise A solitary wave was first discussed by J Scott Russell in 1845 in Report of British Asso ciations for the Advancement of Science He had while horseback riding observed a solitary wave travelling along a water channel and followed its unbroken progress for over a mile   *Selected Topics in Nonlinear Wave Mechanics* C. I. Christov,Arde Guran,2001-10-26   **Selected Topics in Nonlinear Wave Mechanics** Christo I. Christov,Ardéshir Guran,2002
   Proceedings of the Estonian Academy of Sciences, Physics and Mathematics ,2003-03   <u>Variational and Extremum Principles in Macroscopic Systems</u> 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   **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 carryon 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 of basic principles of contemporary science new proposals and evidences there presented They seem very important to us   **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   **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 de ciphering of this author s paper in the Philosophical Magazine Vol 33 pp 191 204 1891 seems to reveal a notion that was introduced in math ematical form much later that of local structural rearrangement This

notion obviously takes place on the material manifold of modern con tinuum mechanics It is more or less clear that seemingly different phe nomena 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 exten sion of cracks plasticity material growth in the bulk or at the surface by accretion wear and the production of debris should enter a com mon 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 duahty inherent in mechanics since J L d Alembert

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   **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 Scienti c Centres within Mathematics and its Applications CENS CMA 2005 2009 der contract MTKD CT 2004 013909 which nanced 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 Univ sity of Oslo Norway as the partner institution of CENS in the Marie Curie project and three the eld of work of foreign research fellows who visited CENS as part of theproject Thestructureofthebookre ectsthedistributionofthetopicsaddressed 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 scienti c 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 scienti c 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   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   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 fi eld 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   **The Chemistry of Matter Waves** Jan C.A. Boeyens,2013-08-13 The quantum and relativity theories of physics are considered to underpin all of science in an absolute sense This monograph argues against this proposition primarily on the basis of the two theories incompatibility and of some untenable philosophical implications of the quantum model Elementary matter is assumed in both theories to occur as zero dimensional point particles In relativity theory this requires the space like region of the underlying Minkowski space time to be rejected as unphysical despite its precise mathematical characterization In quantum theory it leads to an incomprehensible interpretation of the wave nature

of matter in terms of a probability function and the equally obscure concept of wave particle duality The most worrisome aspect about quantum mechanics as a theory of chemistry is its total inability despite unsubstantiated claims to the contrary to account for the fundamental concepts of electron spin molecular structure and the periodic table of the elements A remedy of all these defects by reformulation of both theories as nonlinear wave models in four dimensional space time is described

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