

OXFORD MATHEMATICAL MONOGRAPHS

# Nonlinear Waves in Elastic Crystals

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GÉRARD A. MAUGIN



OXFORD SCIENCE PUBLICATIONS

# Nonlinear Waves In Elastic Crystals

**Gérard A. Maugin**

## **Nonlinear Waves In Elastic Crystals:**

Nonlinear Waves in Elastic Crystals Gérard A. Maugin, 1999 The mathematical modelling of changing structures in materials is of increasing importance to industry where applications of the theory are found in subjects as diverse as aerospace and medicine. This book deals with aspects of the nonlinear dynamics of deformable ordered solids known as elastic crystals where the nonlinear effects combine or compete with each other. Physical and mathematical models are discussed and computational aspects are also included. Different models are considered on discrete as well as continuum scales applying heat, electricity or magnetism to the crystal structure and these are analysed using the equations of rational mechanics. In this way the student is introduced to the important equations of nonlinear science that describe shock waves, solitons and chaos and also the non-exactly integrable systems or partial differential equations. A large number of problems and examples are included, many taken from recent research and involving both one dimensional and two dimensional problems as well as some coupled degrees of freedom.

**Wave Processes in Solids with Microstructure** Vladimir I. Erofeev, 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

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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

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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

**Nonlinear Waves in Solids** A. Jeffrey, J. Engelbrecht, 2014-05-04

Travelling wave processes and wave motion are of great importance in many areas of mechanics and

nonlinearity also plays a decisive role there The basic mathematical models in this area involve nonlinear partial differential equations and predictability of behaviour of wave phenomena is of great importance Beside fluid dynamics and gas dynamics which have long been the traditional nonlinear sciences solid mechanics is now taking an ever increasing account of nonlinear effects Apart from plasticity and fracture mechanics nonlinear elastic waves have been shown to be of great importance in many areas such as the study of impact nondestructive testing and seismology These lectures offer a thorough account of the fundamental theory of nonlinear deformation waves and in the process offer an up to date account of the current state of research in the theory and practice of nonlinear waves in solids

**Nonlinear Wave Propagation in Mechanics** American Society of Mechanical Engineers. Winter Annual Meeting, 1986

**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

**Applied Wave Mathematics II** Arkadi Berezovski, Tarmo Soomere, 2019-11-16 This book gathers contributions on various aspects of the theory and applications of linear and nonlinear waves and associated phenomena as well as approaches developed in a global partnership of researchers with the national Centre of Excellence in Nonlinear Studies CENS at the Department of Cybernetics of Tallinn University of Technology in Estonia The papers chiefly focus on the role of mathematics in the analysis of wave phenomena They highlight the complexity of related topics concerning wave generation propagation transformation and impact in solids gases fluids and human tissues while also sharing insights into selected mathematical methods for the analytical and numerical treatment of complex phenomena In addition the contributions derive advanced mathematical models share innovative ideas on computing and present novel applications for a number of research fields where both linear and nonlinear wave problems play an important role The papers are written in a tutorial style intended for non specialist

researchers and students The authors first describe the basics of a problem that is currently of interest in the scientific community discuss the state of the art in related research and then share their own experiences in tackling the problem Each chapter highlights the importance of applied mathematics for central issues in the study of waves and associated complex phenomena in different media The topics range from basic principles of wave mechanics up to the mathematics of Planet Earth in the broadest sense including contemporary challenges in the mathematics of society In turn the areas of application range from classic ocean wave mathematics to material science and to human nerves and tissues All contributions describe the approaches in a straightforward manner making them ideal material for educational purposes e g for courses master class lectures or seminar presentations **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 Soviet Physics, Solid State ,1990 **Days on Diffraction' 2004** Ivan V. Andronov,2004 *Journal of the Physical Society of Japan* ,2001 **Mathematical Reviews** ,2002 **Lattice Models of Propagating Defects** Olga Kreese,2002 **Extracta Mathematicae** ,1999 **Bell Laboratories Talks and Papers** Bell Telephone Laboratories. Libraries and Information Systems Center,1970 **Sasakian Geometry** Charles Boyer,Krzysztof Galicki,2008-01-24 This book offers an extensive modern treatment of Sasakian geometry which is of importance in many different fields in geometry and physics Acoustical Physics ,1995 McGraw-Hill Encyclopedia of Science & Technology ,1987 **Eesti Teaduste Akadeemia Toimetised** ,2007 **Journal of the Mechanical Behavior of Materials** ,2002 U.S. Government Research & Development Reports ,1970

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