

Series in Theoretical and Applied Mechanics - Vol. 1  
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**NONLINEAR  
ELECTROMECHANICAL  
EFFECTS AND  
APPLICATIONS**

**G. A. Maugin**

# Nonlinear Electromechanical Effects And Applications

**G.A. Maugin**

## **Nonlinear Electromechanical Effects And Applications:**

*Nonlinear Electromechanical Effects and Applications* Gérard A. Maugin, 1985 The book develops a cross disciplinary approach to the phenomenon of linear and nonlinear wave propagation in piezoelectric crystals Based on the rigorous presentation of nonlinear continuum mechanics and electromechanical interactions in anisotropic bodies the work starts from primary principles is progressive and develops the subject matter by means of worked out examples up to the most recent applications in signal processing introducing the most efficient methods of applied mathematics The attention is especially focused on phenomena such as the formation of shocks the generation harmonics the anisochronism of resonators nonlinear surface waves the convolution of signals by means of surface wave guides the nonlinear coupling between the crystal and deformations the compensation between dispersion and nonlinearity The work should be of pedagogical and practical interest to graduate students and research workers in various fields of applied science and engineering

*Nonlinear Electromechanical Effects And Applications* Gerard A. Maugin, 1986    *Nonlinear Electromechanical Couplings* G. A. Maugin, 1992-10-13 Offers an updated and rigorous treatise on most manifestations of nonlinear electromechanical couplings in dielectric media with applications to piezoelectric and ferroelectric crystals piezoelectric powders and solutions of electrodeformable macromolecules Presents a variety of static and dynamic nonlinear effects which have important engineering applications Contains an insight into the nonlinear behavior of such new substances as ceramics powders and ferroelectrics Rigorous mathematical treatment includes hyperbolic systems asymptotic expansions singular perturbations convexity and soliton theory

*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

*Non-Equilibrium Thermodynamics with Application to Solids* W. Muschik, 2014-05-04 This book puts emphasis on developing the basic ideas behind the different approaches to non equilibrium thermodynamics and on applying them to solids After a survey about different approaches an introduction to their common fundamentals is given in the first part In the second part the mechanical behavior of special materials such as viscoelasticity viscoplasticity viscoelastoplasticity and thermoplasticity are discussed The third part is devoted to extended thermodynamics The basic ideas phenomenological as well as microscopical are reviewed and applied to thermo and

viscoelastic materials Electromagnetic solids showing dielectric relaxation such as ceramics showing electromagneto mechanical hysteresis and superconductivity are treated in the fourth part In the last part stability with regard to constitutive equations is investigated Especially stability of quasi static processes and of elastic plastic systems are discussed

*Intentional and Inherent Nonlinearities in Piezoelectric Energy Harvesting* Michele Rosso,2024-03-01 This book presents recent research in the field of piezoelectric vibration energy harvesting in which intentionally designed nonlinearities as well as inherently present are widely considered It provides an overview of the state of the art with a sharp classification into linear and nonlinear devices and recalls the fundamentals of piezoelectricity and magnetostatics A detailed treatment of linear and nonlinear mathematical modeling of piezoelectric harvesters is then developed to provide the reader with a wide range of modeling possibilities Theoretical computational and experimental approaches to modeling the magnetic interaction are also provided Several cases of innovative piezoelectric harvester designs based on magnetic interaction as a frequency up conversion mechanism FuC are developed Improvements of the magnetic FuC are proposed in combination with indirect impacts as well as the manipulation of magnetic forces with novelty methods Novel studies on the magnetic interaction itself and its implications for the dynamic behavior of the harvester are also summarized The book provides an integrated view of theoretical computational and experimental research in this field as such it can be useful for researchers interested in linear and nonlinear piezoelectric energy harvesting for graduate courses on smart structures and devices microsystems and for designers

*Continuum Mechanics of Electromagnetic Solids* G.A. Maugin,2013-10-22 This volume is a rigorous cross disciplinary theoretical treatment of electromechanical and magnetomechanical interactions in elastic solids Using the modern style of continuum thermomechanics but without excessive formalism it starts from basic principles of mechanics and electromagnetism and goes on to unify these two fields in a common framework It treats linear and nonlinear static and dynamic problems in a variety of elastic solids such as piezoelectrics electricity conductors ferromagnets ferroelectrics ionic crystals and ceramics Chapters 1 3 are introductory describing the essential properties of electromagnetic solids the essentials of the thermomechanics of continua and the general equations that govern the electrodynamics of nonlinear continua in the nonrelativistic framework e g Maxwell's equations the fundamental balance laws of continuum mechanics basic thermodynamical inequalities for electromagnetic continua jump relations for studying the propagation of shock waves nonlinear constitutive equations for large classes of materials The remainder of the text presents in detail special cases applications solved problems and more complex schemes of electromagnetic matter Chapters 4 and 5 examine material schemes whose description relies on the above mentioned equations Chapters 6 and 7 are more advanced reporting on recent progress in the field Suitable for graduate teaching the volume will also be useful to research workers and engineers in the field of electromagnetomechanical interactions and to those interested in the basic principles mathematical developments and applications of electroelasticity and magnetoelasticity in a variety of solid materials such as crystals

polycrystals compounds and alloys      **Generalized Models and Non-classical Approaches in Complex Materials 2**  
Holm Altenbach, Joël Pouget, Martine Rousseau, Bernard Collet, Thomas Michelitsch, 2018-06-26 This book is the 2nd special volume dedicated to the memory of Gérard Maugin. Over 30 leading scientists present their contribution to reflect the vast field of scientific activity of Gérard Maugin. The topics of contributions employing often non standard methods generalized model in this volume show the wide range of subjects that were covered by this exceptional scientific leader. The topics range from micromechanical basics to engineering applications focusing on new models and applications of well known models to new problems. They include micro macro aspects, computational efforts, possibilities to identify the constitutive equations and old problems with incorrect or non satisfying solutions based on the classical continua assumptions      **Modelling of Engineering Materials** C. Lakshmana Rao, Abhijit P. Deshpande, 2014-07-02 Modelling of Engineering Materials presents the background that is necessary to understand the mathematical models that govern the mechanical response of engineering materials. The book provides the basics of continuum mechanics and helps the reader to use them to understand the development of nonlinear material response of solids and fluids used in engineering applications. A brief review of simplistic and linear models used to characterize the mechanical response of materials is presented. This is followed by a description of models that characterize the nonlinear response of solids and fluids from first principles. Emphasis is given to popular models that characterize the nonlinear response of materials. The book also presents case studies of materials where a comprehensive discussion of material characterization, experimental techniques and constitutive model development is presented. Common principles that govern material response of both solids and fluids within a unified framework are outlined. Mechanical response in the presence of non mechanical fields such as thermal and electrical fields applied to special materials such as shape memory materials and piezoelectric materials is also explained within the same framework.

**Tensor**, 1997      **Applied Mechanics Reviews**, 1987      *Le Matematiche*, 1991      *Paperbound Books in Print*, 1991  
Soviet Journal of Contemporary Engineering Mechanics, 1989      Canadian Journal of Physics, 2003-07      **Proceedings of IMAC-XIX**, 2001      Proceedings, 1991      Electrodynamics of Continua II A. Cemal Eringen, Gerard A. Maugin, 1989-12-11 This is the second volume of a two volume set presenting a unified approach to the electrodynamics of continua based on the principles of contemporary continuum of physics. The first volume was devoted mainly to the development of the theory and applications to deformable solid media. This volume extends the developments of the first volume to richer and newer grounds. It contains discussions on fluid media, magnetohydrodynamics, electrohydrodynamics and media with more complicated structures. With the discussion in the last two chapters of memory dependent materials and non local E-M theory the authors account for the nonlocal effects arising from motions and fields of material points at past times and at spatially distant points. This discussion is included here to stimulate further research in these important fields which are presently in development stages. The second volume is self contained and can be studied without the help of volume I A.

section summarizing the constitutive equations and the underlying physical ideas which were presented in more detail in the first volume is included. This volume may be used as a basis for several graduate courses in engineering schools applied mathematics and physics departments. It also contains fresh ideas and will stimulate further research in the directions the authors outline. *II International Symposium on Surface Waves in Solids and Layered Structures and IV International Scientific Technical Conference, Acoustoelectronics '89, September 14-19, 1989, Varna, Bulgaria* Milko Borisov, 1990  
*Mathematical Reviews*, 1987

## Embracing the Song of Expression: An Psychological Symphony within **Nonlinear Electromechanical Effects And Applications**

In a global consumed by displays and the ceaseless chatter of fast interaction, the melodic beauty and psychological symphony developed by the written term frequently diminish in to the background, eclipsed by the relentless sound and distractions that permeate our lives. But, set within the pages of **Nonlinear Electromechanical Effects And Applications** an enchanting literary treasure filled with raw thoughts, lies an immersive symphony waiting to be embraced. Crafted by a masterful composer of language, this captivating masterpiece conducts viewers on a psychological trip, skillfully unraveling the hidden melodies and profound impact resonating within each carefully crafted phrase. Within the depths of this emotional evaluation, we can examine the book is key harmonies, analyze their enthralling writing design, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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