

Electromagnetoelasticity

by

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Electromagnetoelasticity Of Piezoelectronics And Electrically Conductive Solids

G Orfield



Electromagnetoelasticity Of Piezoelectronics And Electrically Conductive Solids:

Scientific and Technical Aerospace Reports, 1973 **An Introduction to the Theory of Piezoelectricity** Jiashi Yang, 2004-11-19 This book is based on lecture notes for a graduate course that has been offered at University of Nebraska Lincoln on and off since 1998 The course is intended to provide graduate students with the basic aspects of the continuum modeling of electroelastic interactions in solids A concise treatment of linear nonlinear static and dynamic theories and problems is presented The emphasis is on formulation and understanding of problems useful in device applications rather than solution techniques of mathematical problems The mathematics used in the book is minimal The book is suitable for a one semester graduate course on electroelasticity It can also be used as a reference for researchers I would like to take this opportunity to thank UNL for a Maude Hammond Fling Faculty Research Fellowship in 2003 for the preparation of the first draft of this book I also wish to thank Ms Deborah Derrick of the College of Engineering and Technology at UNL for editing assistance with the book and Professor David Y Gao of Virginia Polytechnic Institute and State University for recommending this book to Kluwer for publication in the series of Advances in Mechanics and Mathematics JSY Lincoln Nebraska 2004

Preface Electroelastic materials exhibit electromechanical coupling They experience mechanical deformations when placed in an electric field and become electrically polarized under mechanical loads Strictly speaking piezoelectricity refers to linear electromechanical couplings only Advanced Mechanics of Piezoelectricity Qinghua Qin, 2012-11-29 Advanced Mechanics of Piezoelectricity presents a comprehensive treatment of piezoelectric materials using linear electroelastic theory symplectic models and Hamiltonian systems It summarizes the current state of practice and presents the most recent research findings in piezoelectricity It is intended for researchers and graduate students in the fields of applied mechanics material science and engineering computational engineering and aerospace engineering Dr Qinghua Qin is a professor at the School of Engineering Australian National University Australia Theory of Electroelasticity Zhen-Bang Kuang, 2013-08-04 Theory of Electroelasticity analyzes the stress strain electric field and electric displacement in electroelastic structures such as sensors actuators and other smart materials and structures This book also describes new theories such as the physical variational principle and the inertial entropy theory It differs from the traditional method by using the physical variational principle to derive the governing equations of the piezoelectric material whereas the Maxwell stress is obtained automatically By using the inertial entropy theory the temperature wave equation is obtained very easily The book is intended for scientists researchers and engineers in the areas of mechanics physics smart material and control engineering as well as mechanical aeronautical and civil engineering etc Zhen Bang Kuang is a professor at Shanghai Jiao Tong University **On the Static Nonlinear Theory of Electromagnetic Thermoelastic Solids** Neal Francis Jordan, AND A. Cemal Eringen, PURDUE UNIV LAFAYETTE IND., 1963 The basic field equations boundary conditions and constitutive equations necessary for the treatment of problems concerning the nonlinear steady state behavior of elastic solids subject to large deformations electromagnetic

fields and thermal gradients are derived The basic equations are formulated to include Maxwell's equations laws of conservation of mass and of energy and principles of balance of momentum and balance of moment of momentum The constitutive equations characterize the stress dielectric displacement electric current magnetic flux density and heat flux as analytic point functions of strain electric field magnetic field and thermal gradient for elastic solids displaying holohedral isotropy with respect to mechanical electrical magnetic and thermal properties Author **Fracture Mechanics of**

Piezoelectric Solids with Interface Cracks Volodymyr Govorukha, Marc Kamlah, Volodymyr Loboda, Yuri Lapusta, 2017-03-14 This book provides a comprehensive study of cracks situated at the interface of two piezoelectric materials It discusses different electric boundary conditions along the crack faces in particular the cases of electrically permeable impermeable partially permeable and conducting cracks The book also elaborates on a new technique for the determination of electromechanical fields at the tips of interface cracks in finite sized piezoceramic bodies of arbitrary shape under different load types It solves scientific problems of solid mechanics in connection with the investigation of electromechanical fields in piezoceramic bodies with interface cracks and develops calculation models and solution methods for plane fracture mechanical problems for piecewise homogeneous piezoceramic bodies with cracks at the interfaces It discusses the open crack model which leads to a physically unrealistic oscillating singularity at the crack tips and the contact zone model for in plane straight interface cracks between two dissimilar piezoelectric materials It also investigates the model of a crack with electro mechanical pre fracture zones The formulated problems are reduced to problems of linear relationship which correspond to different crack models and their exact analytical solutions are found The book presents in detail the expressions for stress and electric displacement intensity factors as well as for the energy release rate The influence of the electric permittivity of the crack the mechanical load and the electric field upon the electro elastic state as well as the main fracture mechanical parameters are analyzed and clearly illustrated This book addresses postgraduate students university teachers and researchers dealing with the problems of fracture mechanics of piezoelectric materials as well as engineers who are active in the analysis of strength and durability of piezoelectric constructions *Static and Dynamic Coupled Fields in Bodies with Piezoeffects or Polarization Gradient* Jerzy Nowacki, 2010-04-12 The basic subject chosen for this book is directly associated with physics of piezoelectricity and some other electro magneto thermo elastic coupling phenomena in solids Fundamentals of physics of electromechanical interactions in dielectric bodies have been studied both theoretically and experimentally by a great number of researchers being reflected in multiple publications It will be worthwhile to start our reference list from the old books by P Curie 1 and W Voigt 2 the first discovered piezoelectricity experimentally 1880 and the second established its relation to the crystalline structure 1884 We shall not go to detailed history of this field of science One can find it in many more recent monographs devoted in part or totally to linear piezoelectricity 3 9 to its nonlinear aspects 10 14 and to linear electromechanical coupling arising due to more delicate physical reasons and existing even in

centrosymmetric media 15 16 The book is related to series of theoretical studies of electro elastic fields in solids with piezoelectric coupling or polarization gradient *Study of the Relationship Between Electromagnetic and Elastic Properties of Solids and Fluids* Petros N. Argyres, NORTHEASTERN UNIV BOSTON MASS DEPT OF PHYSICS., 1975 Three approaches to the central problem are discussed The first is an unsuccessful attempt which however provides a useful critique of projection operator techniques The second is only a partially successful approach through the use of a semiphenomenological model of a dielectric The third which is described in some detail constitutes a successful approach and yields a very general and rigorous connection between the elastic and electromagnetic tensors of a very general model of a solid **Special Topics in the Theory of Piezoelectricity** Jiashi Yang, 2010-06-08 Piezoelectricity has been a steadily growing field with recent advances made by researchers from applied physics acoustics materials science and engineering This collective work presents a comprehensive treatment of selected advanced topics in the subject The book is written for an intermediate graduate level and is intended for researchers mechanical engineers and applied mathematicians interested in the advances and new applications in piezoelectricity **Fundamentals of Piezoelectric Sensorics** Jan Tichý, Jirí Erhart, Erwin Kittinger, Jana Prívratská, 2010-07-28 Presents the fundamental physics of piezoelectric sensors Only book with this scope Targeted to those engineers physicists and chemists who are involved in materials processing device design and manufacturing *Analysis of Piezoelectric Structures and Devices* Daining Fang, Ji Wang, Weiqiu Chen, 2013-08-01 This edited work covers piezoelectric materials in the form of beams plates shells and other structural components in modern devices and structures Applications are frequency control and detection functions in resonators sensors actuators oscillations and other smart and intelligent structures The products and technology are with us in our daily life through computers and communication devices The contributions cover novel methods for the analysis of piezoelectric structures including wave propagation high frequency vibration material characterization and optimization of structures Understanding of these methods is increasingly important in the design and modelling of next generation devices and micro structures with piezoelectric elements and effects *Piezoelectricity: Volume One* Walter Guyton Cady, 2018-10-17 Volume I of this complete systematic survey by an expert in the field examines the fundamental properties of crystals and various formulations of piezoelectric theory including production and measurement 1946 edition **Nonlinear Electromechanical Effects And Applications** Gerard A Maugin, 1986-01-01 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 **Piezoelectricity** C. Rosen,B.V. Hiremath,R. Newnham,1992-02-24 This collection of 32 major review papers provides a complete understanding of the physics of piezoelectricity With a thorough overview of applications and a major section exploring measurements and standards this volume gives a systematic derivation of piezoelectric coefficients and equations of state for coupling mechanical electrical and thermal fields A useful graduate text for design engineers materials scientists chemists metallurgists and condensed matter physicists **Magneto — Thermoelasticity** Heinz Parkus,2014-05-04 **Piezoelectricity: Volume Two** Walter Guyton Cady,2018-10-17 Second in two volume series covers properties and techniques of quartz Rochelle salt ferroelectric crystals various applications of piezoelectricity pyroelectricity optical properties of crystals and atomic theory of piezoelectricity 1946 edition **Analysis of Piezoelectric Devices** Jiashi Yang,2006 Focuses on the theoretical analysis of piezoelectric devices Based on the linear nonlinear three dimensional and lower dimensional structural theories of electromechanical materials this book presents theoretical results for devices such as piezoelectric resonators acoustic wave sensors and piezoelectric transducers **Vibrations of Linear Piezostructures** Andrew J. Kurdila,Pablo A. Tarazaga,2021-05-07 A thorough guide to the fundamental development of linear piezoelectricity for vibrations Vibrations of Linear Piezostructures is an introductory text that offers a concise examination of the general theory of vibrations of linear piezostructures This important book brings together in one comprehensive volume the most current information on the theory for modeling and analysis of piezostructures The authors explore the fundamental principles of piezostructures review the relevant mathematics continuum mechanics and elasticity and continuum electrodynamics as they are applied to electromechanical piezostructures and include the work that pertains to linear constitutive laws of piezoelectricity The book addresses modeling of linear piezostructures via Newton's approach and Variational Methods In addition the authors explore the weak and strong forms of the equations of motion Galerkin approximation methods for the weak form Fourier or modal methods and finite element methods This important book Covers the fundamental developments to vibrational theory for linear piezostructures Provides an introduction to continuum mechanics elasticity electrodynamics variational calculus and applied mathematics Offers in depth coverage of Newton's formulation of the equations of motion of vibrations of piezo structures Discusses the variational methods for generation of equations of motion of piezo structures Written for students professionals and researchers in the field Vibrations of Linear Piezostructures is an up to date volume to the fundamental development of linear piezoelectricity for vibrations from initial development to fully modeled systems using various methods

Steady-State Problems of Nonlinear Electro-Magneto-Thermo-Elasticity Robert C. Rogers,Stuart S. Antman,WISCONSIN UNIV-MADISON MATHEMATICS RESEARCH CENTER.,1986 This paper studies the steady state behavior of solids that can

sustain mechanical electromagnetic and thermal effects The authors examine a class of boundary value problems for a quasilinear system of functional differential equations that is derived from a very general model for such materials They propose a physically reasonable constitutive theory which leaves this system amenable to modern methods of partial differential equations The principal assumption is a modified version of the strong ellipticity condition Part I proves existence results for the general system under some special physical assumptions rigidity and hyperelasticity The formulation admits non local interactions caused by the magnetic self field generated by the deformed conducting body Part II shows the existence and regularity of solutions of a system of functional ordinary differential equations arising from a semi inverse problem in a more comprehensive physical situation Keywords Smooth solutions Polyconvex energy functions Electro elastic coupling Magneto elastic coupling Conducting rods Thermo elastic coupling Author Electrical Properties of Solids T. F. Connolly, 2014-01-15

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