

**NORTH-HOLLAND SERIES IN  
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# **elastic wave propagation**

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editors

**NORTH-HOLLAND**

# Elastic Wave Propagation By Mccarthy

**Harald Berndt**



## **Elastic Wave Propagation By McCarthy:**

**Elastic Wave Propagation** F. McCarthy, M. Hayes, 2018-06-20 This volume contains a timely collection of research papers on the latest developments in the ever increasing use of elastic waves in a variety of contexts There are reports on wave propagation in various types of media in both isotropic and anisotropic bodies in homogeneous and inhomogeneous media in media with cracks or inclusions in random media and in layered composites The bulk of the papers are concerned with propagation in elastic media but also included are viscoelastic thermoelastic and magneto electroelastic wave propagation as well as waves in porous and piezo electric bodies Consideration is given to propagation in bodies as diverse as stretched elastic strings to surfaces such as thin walled cylinders and thin films under stress Applications considered include the determination of the depth of cracks analysis of ground motions generated by a finite fault in seismology surface wave spreading on piezo electric solids and dynamical stress intensity factors Most of the papers are theoretical in nature and many are complemented by numerical studies Also included are a general survey on experimental techniques and reports on experimental work The volume will be of interest to those who do theoretical studies of elastic wave propagation and to those who apply elastic waves whether in seismology non destructive testing the fabrication of devices or underwater acoustics etc

Elastic Waves in Composite Media and Structures Subhendu K. Datta, 2019-04-23 New applications for composite materials are being developed at a rapid pace However their complex microstructures present considerable challenges for nondestructive testing and characterization Ultrasonic waves provide quantitative means of nondestructive evaluation of these materials and structures For this purpose it is necessary to obtain *Elastic Wave Propagation* I.U.T.A.M.-I.U.P.A.P. Symposium on Elastic Wave Propagation (Galway)), International Union of Theoretical and Applied Mechanics, 1989

*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

**Acoustic Interactions with Submerged Elastic Structures: Acoustic propagation and scattering, wavelets, and time frequency analysis : a Herbert Berall festschrift volume** Ardeshir Guran, Dieter Guicking, 1996 Berall's work in acoustic and electromagnetic scattering has evoked much interest in

the US as well as abroad because of its possible practical applications as well as the theoretical understanding Many collaborators have been inspired by it and have now contributed to this volume The book is an excellent contribution to the literature of Acoustics and Wave Propagation Professor Guran is to be congratulated for organizing and editing this volume Prof Hans A Bethe Noble Laureate Cornell University 1996

**Modern Theory of Anisotropic Elasticity and Applications** Julian J. Wu, Thomas Chi-tsai Ting, David M. Barnett, 1991-01-01 A selection of 26 original papers some of them substantially revised after the workshop discuss anisotropic elasticity and its applications in solid mechanics and applied mathematics Considering elastostatics elastodynamics and constitutive relations they discuss such topics as Green's function

**Ultrasonics International 91** Sam Stuart, 2013-10-22 Ultrasonics International 91 is a documentation of conference proceedings that discusses the status and future of acoustic microscopy and its application to materials research especially focusing on its quantitative analyses Acoustic microscopy using focused waves has been receiving increased attention as a technology applicable to materials characterization at the microscopic scale In acoustic microscopy the excitation and propagation of leaky surface acoustic waves LSAWs in the environment of the coupling liquid at the solid specimens are observed Three types of the systems have been developed point focus beam PFB line focus beam LFB and directional PFB acoustic microscopes In this paper a brief history of the practical developments is first presented followed by LFB acoustic microscopy for quantitative material characterization and some applications concerned with characterization of elastic anisotropy and inhomogeneity of electronic materials such as LiNbO<sub>3</sub> and LiTaO<sub>3</sub> single crystals and thin film characterization This book gives a comprehensive account of the majority of the oral and poster contributions made during the conference and makes a valuable addition to a student or researchers ultrasonic literature

**Structural Dynamics** G.I. Schueller, 2012-12-06 This book contains some new developments in the area of Structural Dynamics In general it reflects the recent efforts of several Austrian research groups during the years 1985-1990 The contents of this book cover both theoretical developments as well as practical applications and hence can be utilized by researchers as well as the practicing engineers Quite naturally realistic modeling of a number of load types such as wind and earthquake loading etc requires taking into account statistical uncertainties Hence these loads have to be characterized by stochastic processes As a consequence stochastic aspects must play a major role in modern structural dynamics Since an extended modeling of the load processes should not be counterbalanced by simplifying the structural models considerable efforts have been put into the development of procedures which allow the utilization of e.g. FE models and codes which are utilized presently in context with simplified i.e. deterministic load models Thus the processing of the additional information on loads as well as including statistical properties of the material allows to provide additional answers i.e. quantification of the risk of structural failure This volume concentrates on four major areas i.e. on load modeling structural response analysis computational reliability procedures and finally on practical application Quite naturally only special fields and particular i.e. selected types of problems

can be covered Specific reference is made however to cases where generalizations are possible Anisotropic Elasticity Thomas Chi-tsai Ting, 1996 Elasticity is a property of materials which returns them to their original shape after forces applied to change the shape have been removed This advanced text explores the problems of composite or anisotropic materials and their elasticity *Continuum Mechanics of Single-Substance Bodies* A. Cemal Eringen, 2013-10-22 Continuum Physics Volume II Continuum Mechanics of Single Substance Bodies discusses the continuum mechanics of bodies constituted by a single substance providing a thorough and precise presentation of exact theories that have evolved during the past years This book consists of three parts basic principles constitutive equations for simple materials and methods of solution Part I of this publication is devoted to a discussion of basic principles irrespective of material geometry and constitution that are valid for all kinds of substances including composites The geometrical notions kinematics balance laws and thermodynamics of continua are also deliberated Part II focuses on materials consisting of a single substance followed by a general theory of constitutive equations and special types of bodies The thermoelastic solids thermoviscous fluids and memory dependent materials are likewise considered Part III is devoted to a discussion of a variety of nonlinear and linear problems as well as nonlinear deformations of elastic solids viscometric fluids singular surfaces and waves and complex function technique This volume is a good source for researchers and students conducting work on the continuum mechanics of single substance bodies

**Selected Topics in Nonlinear Wave Mechanics** C.I. Christov, Arde Guran, 2012-12-06 This book gives an overview of the 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 intentionally at 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 continued 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 compensate 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 Associations 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 *Nonlinear Waves in Solid State Physics* A.D. Boardman, M. Bertolotti, T. Twardowski, 2012-12-06 This book is based on the contributions to the 17th International School of Materials Science and Technology entitled Nonlinear Waves in Solid State Physics This was held as a NATO Advanced Study Institute at the Ettore Majorana Centre in Erice Sicily between the 1st and 15 July 1989 and

attracted almost 100 participants from over 20 different countries The book covers the fundamental properties of nonlinear waves in solid state materials dealing with both theory and experiment The aim is to emphasise the methods underpinning the important new developments in this area The material is organised into subject areas that can broadly be classified into the following groups the theory of nonlinear surface and guided waves in self focusing magnetic and non magnetic materials nonlinear effects at interfaces nonlinear acoustoelectronic and surface acoustic waves Lagrangian and Hamiltonian formulations of nonlinear problems nonlinear effects in optical fibres resonance phenomena and nonlinear integrated optics The chapters have been grouped together according to these classifications as closely as possible but it should be borne in mind that although there is much overlap of ideas each chapter is essentially independent of the others We would like to acknowledge the sponsorship of the NATO Scientific Affairs Division the European Physical Society the National Science Foundation of the USA the European Research Office the Italian Ministry of Education the Italian Ministry of Scientific and Technological Research the Sicilian Regional Government and the Ugo Bordoni Foundation     Large-Scale Structures in Acoustics and Electromagnetics National Research Council, Division on Engineering and Physical Sciences, Commission on Physical Sciences, Mathematics, and Applications, Board on Mathematical Sciences, 1996-05-05 This book focuses on computational methods to determine the dynamics of large scale electromagnetic acoustic and mechanical systems including those with many substructures and characterized by an extended range of scales Examples include large naval and maritime vessels aerospace vehicles and densely packed microelectronic and optical integrated circuits VLSI The interplay of time and frequency domain computational and experimental procedures was addressed emphasizing their relationship and synergy and indicating mathematics research opportunities     **Elastic Waves and Ultrasonic Nondestructive Evaluation** Subhendu K. Datta, J. D. Achenbach, Y. Rajapakse, 1990 During the last decade the emergence of ultrasonic techniques for nondestructive evaluation of materials has provided a strong impetus for the study of propagation and diffraction of elastic waves Elastic wave propagation studies have led to quantitative techniques for evaluation and service life prediction of structures The IUTAM Symposium provided an opportunity for researchers active in the interdisciplinary field of QNDE to assess progress and delineate areas of future research Leading researchers presented state of the art lectures focusing attention on an important technological area in which wave propagation studies have made and will continue to make important contributions toward advancing the technology The volume provides a comprehensive overview on the current state of analytical numerical and experimental techniques as well as outlining future research needs It provides evidence of important advances that have been made in the detailed analysis and experimental verification of ultrasonic scattering by single and multiple defects in isotropic medium     *Nonlinear Wave Propagation in Mechanics* American Society of Mechanical Engineers. Winter Annual Meeting, 1986     **Advances in Boundary Element Techniques** James H. Kane, Giulio Maier, Nobuyoshi Tosaka, S.N. Atluri, 2012-12-06 The editors have published a select group of full length papers

on boundary element analysis BEA photographed from camera ready manuscripts The articles have been prepared by some of the most distinguished and prolific individuals in this field More than half of these articles have been submitted by authors that participated in an International Forum on Boundary Element Methods in Melbourne Australia in the Summer of 1991 However this volume is not a conference proceedings as these authors have expanded their accounts to chapter length and or have tailored their expositions more toward the style employed in archival journal publications The authors that did not participate in the International Forum have also adhered to the above mentioned philosophy This work contains a definitive representation of the significant capabilities and applications currently available or under investigation that fall under the general category of advanced boundary element analysis With treatments of mechanical thermal fluid and electromagnetic phenomena this book should thus be of value to graduate students practitioners and researchers in engineering mathematics and the physical sciences wishing to obtain a broader perspective or remain current in these important areas of computational simulation

Surface Waves in Geomechanics: Direct and Inverse Modelling for Soils and Rocks Carlo G. Lai, Krzysztof Wilmanski, 2007-03-23 Theories of surface waves develop since the end of XIX century and many fundamental problems like existence phase and group velocities attenuation quality factor mode conversion etc have been in part successfully solved within the framework of such simple models as ideal fluids or linear elasticity However a sufficiently complete presentation of this subject particularly for solids is still missing in the literature The sole exception is the book of I A Viktorov which contains an extensive discussion of fundamental properties of surface waves in homogeneous and stratified linear elastic solids with particular emphasis on contributions of Russian scientists Unfortunately the book has never been translated to English and its Russian version is also hardly available Practical applications of surface waves develop intensively since a much shorter period of time than theories even though the motivation of discoverers of surface waves such as Lord Rayleigh stems from their appearance in geophysics and seismology Nowadays the growing interest in practical applications of surface waves stem from the following two main factors surface waves are ideal for developing relatively cheap and convenient methods of nondestructive testing of various systems spanning from nanomaterials e g

**Review of Progress in Quantitative Nondestructive Evaluation** Donald O. Thompson, Dale E. Chimenti, 2013-12-01 This volume Parts A and B contains the edited papers presented at the annual Review of Progress in Quantitative Nondestructive Evaluation held at Bowdoin College Brunswick ME on July 24 28 1989 The Review was organized by the Center for Advanced NDE at the Ames Laboratory of the U S Department of Energy in cooperation with the Office of Basic Energy Sciences USDOE and the Materials Laboratory at Wright Patterson Air Force Base The statistics for the 1989 Review of Progress in QNDE include a total of over 460 participants from the U S and nine foreign countries who presented some 325 papers Over the years this conference has grown into one of the largest most significant gatherings of NDE researchers and engineers in the world The meeting was divided into 35 sessions with as many as four sessions running concurrently and covering all

stages of NDE development from basic research investigations to early engineering applications and all methods of inspection science from ultrasonics to x ray tomography The Editors have organized the papers in the Proceedings according to topical subject headings rather than in the original order of presentation This rearrangement yields a more user friendly reference work and follows a pattern now familiar to regular attendees of the Review Some changes in the headings and their subcategories have been introduced to accommodate dynamic evolution of the field as we observe it

**Propagation of Elastic Waves in Wood, Modeling and Measurement** Harald Berndt,1996      *Mechanical Behaviour of Engineering Materials* Y.M. Haddad,2012-11-19 This monograph consists of two volumes and provides a unified comprehensive presentation of the important topics pertaining to the understanding and determination of the mechanical behaviour of engineering materials under different regimes of loading The large subject area is separated into eighteen chapters and four appendices all self contained which give a complete picture and allow a thorough understanding of the current status and future direction of individual topics Volume I contains eight chapters and three appendices and concerns itself with the basic concepts pertaining to the entire monograph together with the response behaviour of engineering materials under static and quasi static loading Thus Volume I is dedicated to the introduction the basic concepts and principles of the mechanical response of engineering materials together with the relevant analysis of elastic elastic plastic and viscoelastic behaviour Volume II consists of ten chapters and one appendix and concerns itself with the mechanical behaviour of various classes of materials under dynamic loading together with the effects of local and microstructural phenomena on the response behaviour of the material Volume II also contains selected topics concerning intelligent material systems and pattern recognition and classification methodology for the characterization of material response states The monograph contains a large number of illustrations numerical examples and solved problems The majority of chapters also contain a large number of review problems to challenge the reader The monograph can be used as a textbook in science and engineering for third and fourth undergraduate levels as well as for the graduate levels It is also a definitive reference work for scientists and engineers involved in the production processing and applications of engineering materials as well as for other professionals who are involved in the engineering design process



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