Inhomogeneous Waves
in
Solids and Fluids

Giacomo Caviglia
Angelo Morro

Inhomogeneous Waves In Solids And Fluids

José Merodio,Giuseppe Saccomandi

Inhomogeneous Waves In Solids And Fluids:

Inhomogeneous Waves In Solids And Fluids Giacomo Caviglia,Angelo Morro,1992-10-09 The book may be viewed as an introduction to time harmonic waves in dissipative bodies notably viscoelastic solids and fluids The inhomogeneity of the waves which is due to the fact that planes of constant phase are not parallel to planes of constant amplitude is shown to be strictly related to the dissipativity of the medium A preliminary analysis is performed on the propagation of inhomogeneous waves in unbounded media and of reflection and refraction at plane interfaces Then emphasis is given to those features that are of significance for applications In essence they regard surface waves scattering by curved obstacles wave propagation in layered heterogeneous media and ray methods The pertinent mathematical techniques are discussed so as to make the book reasonably self contained   The interaction of complex harmonic elastic waves with periodically corrugated surfaces and with anisotropic viscoelastic and/or piezoelectric layered media. Nico F. Declercq,2005-05-12 Unabridged Ph D Thesis with thesis defense photos and presentation at the end   **Theory of Elastic Waves** Peijun Wei,2022-11-30 This book highlights a systematic introduction to the basic theory of elastic wave propagation in complex media The theory of elastic waves is widely used in fields such as geophysical exploration seismic survey medical ultrasound imaging nondestructive testing of materials and structures phononic crystals metamaterials and structure health monitoring To help readers develop a systematic grasp of the basic theory and thus its applications the book elaborates on the theory of elastic wave propagation in isotropic solid media covering phenomena in infinite media interfaces layered structure with finite thickness Rayleigh wave and Love wave propagating along the surface of semi infinite solid and covering layer and the guided waves and leaky waves in flat plates and in cylindrical rods The propagation patterns and features of guided waves in cylindrical shells and spherical shells are also introduced The author wrote the book based on a decade of teaching experience of a graduate course of the same name and two decades of research on the theory and applications The book is a valuable reference for students researchers and professionals who expect an understandable and comprehensive discussion of the theory analytical methods and related research results   **Wave Propagation in Materials and Structures** Srinivasan Gopalakrishnan,2016-11-03 This book focuses on basic and advanced concepts of wave propagation in diverse material systems and structures Topics are organized in increasing order of complexity for better appreciation of the subject Additionally the book provides basic guidelines to design many of the futuristic materials and devices for varied applications The material in the book also can be used for designing safer and more lightweight structures such as aircraft bridges and mechanical and structural components The main objective of this book is to bring both the introductory and the advanced topics of wave propagation into one text Such a text is necessary considering the multi disciplinary nature of the subject This book is written in a step by step modular approach wherein the chapters are organized so that the complexity in the subject is slowly introduced with increasing chapter numbers Text starts by introducing all the fundamental aspects of wave

propagations and then moves on to advanced topics on the subject Every chapter is provided with a number of numerical examples of increasing complexity to bring out the concepts clearly The solution of wave propagation is computationally very intensive and hence two different approaches namely the Finite Element method and the Spectral Finite method are introduced and have a strong focus on wave propagation The book is supplemented by an exhaustive list of references at the end of the book for the benefit of readers *Waves And Stability In Continuous Media - Proceedings Of The Vii Conference* Salvatore Rionero,Tommaso Ruggeri,1994-10-24 This volume presents an up to date overview of some of the most important topics in waves and stability in continuous media The topics are Discontinuity and Shock Waves Linear and Non Linear Stability in Fluid Dynamics Kinetic Theories and Comparison with Continuum Models Propagation and Non Equilibrium Thermodynamics and Numerical Applications **Elastic Waves in Solids, Volume 1** Daniel Royer,Tony Valier-Brasier,2022-03-08 Elastic waves are used in fields as diverse as the non destructive evaluation of materials medicine seismology and telecommunications Elastic Waves in Solids 1 presents the different modes of propagation of elastic waves in increasingly complex media and structures It first studies the propagation in an unlimited solid where only the material properties are taken into account It then analyzes reflection and transmission phenomena at an interface with a fluid or a second solid It explains the search for propagation modes on a free surface or at the interface between two media Finally it proposes a study of the dispersive propagation of elastic waves guided by a plate or a cylinder This book is intended for students completing a master s degree in acoustics mechanics geophysics or engineering as well as teachers and researchers in these disciplines *IUTAM Symposium on Anisotropy, Inhomogeneity and Nonlinearity in Solid Mechanics* David F. Parker,Arthur H. England,2013-11-11 Proceedings of the IUTAM ISIMM Symposium held in Nottingham U K 30 August 3 September 1994 **Elastic Wave Propagation in Structures and Materials** Srinivasan Gopalakrishnan,2022-08-29 Elastic Wave Propagation in Structures and Materials initiates with a brief introduction to wave propagation different wave equations integral transforms including fundamentals of Fourier Transform Wavelet Transform Laplace Transform and their numerical implementation Concept of spectral analysis and procedure to compute the wave parameters wave propagation in 1 D isotropic waveguides wave dispersion in 2 D waveguides is explained Wave propagation in different media such as laminated composites functionally graded structures granular soils including non local elasticity models is addressed The entire book is written in modular form and analysis is performed in frequency domain Features Brings out idea of wave dispersion and its utility in the dynamic responses Introduces concepts as Negative Group Speeds Einstein s Causality and escape frequencies using solid mathematical framework Discusses the propagation of waves in materials such as laminated composites and functionally graded materials Proposes spectral finite element as analysis tool for wave propagation Each concept chapter supported by homework problems and MATLAB FORTRAN codes This book aims at Senior Undergraduates and Advanced Graduates in all streams of engineering especially Mechanical and Aerospace Engineering

Poromechanics J.F. Thimus,et al,2020-12-18 This text features 105 papers dealing with the fundamentals and the applications of poromechanics from the Biot conference of 1998 held in Louvain la Neuve Topics include wave propogation numerical modelling identification of poromechanical parameters and constitutive modelling **Poromechanics IV** Hoe I. Ling,Andrew Smyth,Raimondo Betti,2009-01-13 Based on the Biot conference named after Maurice Biot and held at Columbia University this book contains over 170 original papers on different phases of poromechanics in many materials from soils and minerals to human bone It covers testing and modeling *Continuum Mechanics - Volume I* José Merodio,Giuseppe Saccomandi,2011-11-30 The main objective of continuum mechanics is to predict the response of a body that is under the action of external and or internal influences i e to capture and describe different mechanisms associated with the motion of a body that is under the action of loading A body in continuum mechanics is considered to be matter continuously distributed in space Hence no attention is given to the microscopic atomic structure of real materials although non classical generalized theories of continuum mechanics are able to deal with the mesoscopic structure of matter i e defects cracks dispersive lengths Matter occupies space in time and the response of a body in continuum mechanics is restricted to the Newtonian space time of classical mechanics in this volume Einstein s theory of relativity is not considered In the classical sense loading is considered as any action that changes the motion of the body This includes for instance a change in temperature or a force applied By introducing the concept of configurational forces a load may also be considered as a force that drives a change in the material space for example the opening of a crack Continuum mechanics refers to field descriptions of phenomena that are usually modeled by partial differential equations and from a mathematical point of view require non standard knowledge of non simple technicalities One purpose in this volume has been to present the different subjects in a self contained way for a general audience The organization of the volume is as follows Mathematically to predict the response of a body it is necessary to formulate boundary value problems governed by balance laws The theme of the volume that is an overview of the subject has been written with this idea in mind for beginners in the topic Chapter 1 is an introduction to continuum mechanics based on a one dimensional framework in which simultaneously a more detailed organization of the chapters of this volume is given A one dimensional approach to continuum mechanics in some aspects maybe misleading since the analysis is oversimplified Nevertheless it allows us to introduce the subject through the early basic steps of the continuum analysis for a general audience Chapters 3 4 and 5 are devoted to the mathematical setting of continuum analysis kinematics balance laws and thermodynamics respectively Chapters 6 and 7 are devoted to constitutive equations Chapters 8 and 9 deal with different issues in the context of linear elastostatics and linear elastodynamics and waves respectively for solids Linear Elasticity is a classical and central theory of continuum mechanics Chapter 10 deals with fluids while chapter 11 analyzes the coupled theory of thermoelasticity Chapter 12 deals with nonlinear elasticity and its role in the continuum framework Chapters 13 and 14 are dedicated to different applications of solid and fluid mechanics

respectively The rest of the chapters involve some advanced topics Chapter 15 is dedicated to turbulence one of the main challenges in fluid mechanics Chapter 16 deals with electro magneto active materials a coupled theory Chapter 17 deals with specific ideas of soft matter and chapter 18 deals with configurational forces In chapter 19 constitutive equations are introduced in a general implicit form Well posedness existence time of existence uniqueness continuity of the equations of the mechanics of continua is an important topic which involves sophisticated mathematical machinery Chapter 20 presents different analyses related to these topics Continuum Mechanics is an interdisciplinary subject that attracts the attention of engineers mathematicians physicists etc working in many different disciplines from a purely scientific environment to industrial applications including biology materials science engineering and many other subjects *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 **IUTAM Symposium on Recent Advances of Acoustic Waves in Solids** Tsung-Tsong Wu,Chien-Ching Ma,2010-09-08 Rapid growth of the mobile communication market has triggered extensive research on the bulk as well as surface acoustic wave devices in the last decade Quite a few important results on the modeling and simulation of Film Bulk Acoustic Resonator FBAR and Layered SAW devices were reported recently The other recent advance of acoustic waves in solids is the so called phononic crystals or phononic band gap materials Analogous to the band gap of light in photonic crystals acoustic waves in periodic elastic structures also exhibit band gap Important applications of phononic band gap materials can potentially be found with creating a vibration free environment in microstructures and design of advanced acoustic frequency filter etc In addition to the wave electronics and phononic crystals to facilitate the emerging needs in the quantitative nondestructive evaluation of materials waves in anisotropic solids and or electro magneto interaction problems also regained much attention recently

Topics treated include Waves in piezoelectric crystals Simulation of advanced BAW and SAW devices Analysis of band gaps in phononic structures Experimental investigation of phononic structures Waves in multilayered media Waves in anisotropic solids and or electro magneto interaction problems **Mathematical Reviews** ,2005 <u>Wave Propagation in Solid and Porous Half-Space Media</u> Hamid R. Hamidzadeh,Liming Dai,Reza N. Jazar,2014-04-26 This book covers advanced topics in dynamic modeling of soil foundation interaction as well as the response of elastic semi infinite media from an applications viewpoint Advanced concepts such as solutions for analysis of elastic semi infinite mediums fluid motion in porous media and nonlinearities in dynamic behavior are explained in great detail Related theories and numerical analysis for vertical vibration and rocking vibration of a rigid rectangular mass less plate and horizontal vibration of a rigid mass less plate are presented Throughout the book a strong emphasis is placed on applications and a laboratory model for elastic half space medium is provided <u>Scientific and Technical Aerospace Reports</u> ,1994 <u>Selected Topics in Nonlinear Wave Mechanics</u> 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 **Wave Fields in Real Media** José M. Carcione,2014-12-08 Authored by the internationally renowned Jos M Carcione Wave Fields in Real Media Wave Propagation in Anisotropic Anelastic Porous and Electromagnetic Media examines the differences between an ideal and a real description of wave propagation starting with the introduction of relevant stress strain relations The combination of this relation and the equations of momentum conservation lead to the equation of motion The differential formulation is written in terms of memory variables and Biot s theory is used to describe wave propagation in porous media For each rheology a plane wave analysis is performed in order to understand the physics of wave propagation This book contains a review of the main direct numerical methods for solving the equation of motion in the time and space domains The emphasis is on geophysical applications for seismic exploration but researchers in the fields

of earthquake seismology rock acoustics and material science including many branches of acoustics of fluids and solids may also find this text useful New to this edition This new edition presents the fundamentals of wave propagation in Anisotropic Anelastic Porous Media while also incorporating the latest research from the past 7 years including that of the author The author presents all the equations and concepts necessary to understand the physics of wave propagation These equations form the basis for modeling and inversion of seismic and electromagnetic data Additionally demonstrations are given so the book can be used to teach post graduate courses Addition of new and revised content is approximately 30% Examines the fundamentals of wave propagation in anisotropic anelastic and porous media Presents all equations and concepts necessary to understand the physics of wave propagation with examples Emphasizes geophysics particularly seismic exploration for hydrocarbon reservoirs which is essential for exploration and production of oil   *Elastic Wave Field Extrapolation* C.P.A. Wapenaar,2014-04-14 Extrapolation of seismic waves from the earth s surface to any level in the subsurface plays an essential role in many advanced seismic processing schemes such as migration inverse scattering and redatuming At present these schemes are based on the acoustic wave equation This means not only that S waves shear waves are ignored but also that P waves compressional waves are not handled correctly In the seismic industry there is an important trend towards multi component data acquisition For processing of multi component seismic data ignoring S waves can no longer be justified Wave field extrapolation should therefore be based on the full elastic wave equation In this book the authors review acoustic one way extrapolation of P waves and introduce elastic one way extrapolation of P and S waves They demonstrate that elastic extrapolation of multi component data decomposed into P and S waves is essentially equivalent to acoustic extrapolation of P waves This has the important practical consequence that elastic processing of multi component seismic data need not be significantly more complicated than acoustic processing of single component seismic data This is demonstrated in the final chapters which deal with the application of wave field extrapolation in the redatuming process of single and multi component seismic data Geophysicists and anyone who is interested in a review of acoustic and elastic wave theory will find this book useful It is also a suitable textbook for graduate students and those following courses in elastic wave field extrapolation as each subject is introduced in a relatively simple manner using the scalar acoustic wave equation In the chapters on elastic wave field extrapolation the formulation whenever possible is analogous to that used in the chapters on acoustic wave field extrapolation The text is illustrated throughout and a bibliography and keyword index are provided   *Proceedings* ,2007

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