

J.L. Davis

Wave Propagation In Solids and Fluids



Wave Propagation In Solids And Fluids

Giovanni P. Galdi

A decorative graphic element consisting of a semi-transparent red circle with a gradient, positioned to the right of the author's name.

Wave Propagation In Solids And Fluids:

Wave Propagation in Solids and Fluids Julian L. Davis, 1988-09-12 The purpose of this volume is to present a clear and systematic account of the mathematical methods of wave phenomena in solids gases and water that will be readily accessible to physicists and engineers The emphasis is on developing the necessary mathematical techniques and on showing how these mathematical concepts can be effective in unifying the physics of wave propagation in a variety of physical settings sound and shock waves in gases water waves and stress waves in solids Nonlinear effects and asymptotic phenomena will be discussed Wave propagation in continuous media solid liquid or gas has as its foundation the three basic conservation laws of physics conservation of mass momentum and energy which will be described in various sections of the book in their proper physical setting These conservation laws are expressed either in the Lagrangian or the Eulerian representation depending on whether the boundaries are relatively fixed or moving In any case these laws of physics allow us to derive the field equations which are expressed as systems of partial differential equations For wave propagation phenomena these equations are said to be hyperbolic and in general nonlinear in the sense of being quasi linear We therefore attempt to determine the properties of a system of quasi linear hyperbolic partial differential equations which will allow us to calculate the displacement velocity fields etc

Wave Propagation in Solids and Fluids Julian L. Davis, 2012-12-06 The purpose of this volume is to present a clear and systematic account of the mathematical methods of wave phenomena in solids gases and water that will be readily accessible to physicists and engineers The emphasis is on developing the necessary mathematical techniques and on showing how these mathematical concepts can be effective in unifying the physics of wave propagation in a variety of physical settings sound and shock waves in gases water waves and stress waves in solids Nonlinear effects and asymptotic phenomena will be discussed Wave propagation in continuous media solid liquid or gas has as its foundation the three basic conservation laws of physics conservation of mass momentum and energy which will be described in various sections of the book in their proper physical setting These conservation laws are expressed either in the Lagrangian or the Eulerian representation depending on whether the boundaries are relatively fixed or moving In any case these laws of physics allow us to derive the field equations which are expressed as systems of partial differential equations For wave propagation phenomena these equations are said to be hyperbolic and in general nonlinear in the sense of being quasi linear We therefore attempt to determine the properties of a system of quasi linear hyperbolic partial differential equations which will allow us to calculate the displacement velocity fields etc

Fundamentals of Shock Wave Propagation in Solids Lee Davison, 2008-04-24 My intent in writing this book is to present an introduction to the thermo mechanical theory required to conduct research and pursue applications of shock physics in solid materials Emphasis is on the range of moderate compression that can be produced by high velocity impact or detonation of chemical explosives and in which elastoplastic responses are observed and simple equations of state are applicable In the interest of simplicity the presentation is restricted

to plane waves producing uniaxial deformation. Although applications often involve complex multidimensional deformation fields, it is necessary to begin with the simpler case. This is also the most important case because it is the usual setting of experimental research. The presentation is also restricted to theories of material response that are simple enough to permit illustrative problems to be solved with minimal recourse to numerical analysis. The discussions are set in the context of established continuum mechanical principles. I have endeavored to define the quantities encountered with some care and to provide equations in several convenient forms and in a way that lends itself to easy reference. Thermodynamic analysis plays an important role in continuum mechanics and I have included a presentation of aspects of this subject that are particularly relevant to shock physics. The notation adopted is that conventional in expositions of modern continuum mechanics insofar as possible and variables are explained as they are encountered. Those experienced in shock physics may find some of the notation unconventional.

Stability and Wave Propagation in Fluids and Solids Giovanni P. Galdi, 2014-10-08. The content of the volume is constituted by four articles. The first concerns the theory of propagation of plane waves in elastic media. The second treats theoretically the linear, weakly non-linear and non-linear stability of flows of a viscous incompressible fluid in a diverging channel. The third lecture investigates the mathematical properties of the equations governing the motion of a viscous incompressible second grade fluid, such as existence, uniqueness of classical solutions and stability of steady state flows. The last lecture provides some basic results on wave propagation in continuum models. The objective of this book is to emphasize and to compare the various aspects of interest which include the necessary mathematical background, constitutive theories for material of differential type, polarized and shock waves and second sound in solids at low temperatures.

Introduction to Wave Propagation in Nonlinear Fluids and Solids Douglas S. Drumheller, 1998-02-13. Waves occur widely in nature and have innumerable commercial uses. Waves are responsible for the sound of speech, meteors igniting the atmosphere, radio and television broadcasting, medical diagnosis using ultrasound. This book provides a thorough, modern introduction to the study of linear and nonlinear waves. Beginning with fundamental concepts of motion, the book goes on to discuss linear and nonlinear mechanical waves, thermodynamics and constitutive models for a variety of gases, liquids and solids. Among the important areas of research and application are impact analysis, shock wave research, explosive detonation, nonlinear acoustics and hypersonic aerodynamics. Students at an advanced undergraduate/graduate level will find this text a clear and comprehensive introduction to the study of nonlinear wave phenomena and it will also be valuable as a professional reference in engineering and applied physics.

Wave Propagation in Electromagnetic Media Julian L. Davis, 2012-12-06. This is the second work of a set of two volumes on the phenomena of wave propagation in nonreacting and reacting media. The first, entitled *Wave Propagation in Solids and Fluids*, published by Springer Verlag in 1988, deals with wave phenomena in nonreacting media, solids and fluids. This book is concerned with wave propagation in reacting media, specifically in electro-magnetic materials. Since these volumes were

designed to be relatively self contained we have taken the liberty of adapting some of the pertinent material especially in the theory of hyperbolic partial differential equations concerned with electromagnetic wave propagation variational methods and Hamilton Jacobi theory to the phenomena of electromagnetic waves The purpose of this volume is similar to that of the first except that here we are dealing with electromagnetic waves We attempt to present a clear and systematic account of the mathematical methods of wave phenomena in electromagnetic materials that will be readily accessible to physicists and engineers The emphasis is on developing the necessary mathematical techniques and on showing how these methods of mathematical physics can be effective in unifying the physics of wave propagation in electromagnetic media Chapter 1 presents the theory of time varying electromagnetic fields which involves a discussion of Faraday's laws Maxwell's equations and their applications to electromagnetic wave propagation under a variety of conditions

Mathematics of Wave Propagation Julian L. Davis, 2000-05-07 Earthquakes a plucked string ocean waves crashing on the beach the sound waves that allow us to recognize known voices Waves are everywhere and the propagation and classical properties of these apparently disparate phenomena can be described by the same mathematical methods variational calculus characteristics theory and caustics Taking a medium by medium approach Julian Davis explains the mathematics needed to understand wave propagation in inviscid and viscous fluids elastic solids viscoelastic solids and thermoelastic media including hyperbolic partial differential equations and characteristics theory which makes possible geometric solutions to nonlinear wave problems The result is a clear and unified treatment of wave propagation that makes a diverse body of mathematics accessible to engineers physicists and applied mathematicians engaged in research on elasticity aerodynamics and fluid mechanics This book will particularly appeal to those working across specializations and those who seek the truly interdisciplinary understanding necessary to fully grasp waves and their behavior By proceeding from concrete phenomena e.g the Doppler effect the motion of sinusoidal waves energy dissipation in viscous fluids thermal stress rather than abstract mathematical principles Davis also creates a one stop reference that will be prized by students of continuum mechanics and by mathematicians needing information on the physics of waves

Wave Propagation in Elastic Solids Hugh Joseph McBride, Clyde Scandrett, Van Emden Henson, 1992

Wave Propagation in Elastic Solids Jan Achenbach, 2012-12-02 The propagation of mechanical disturbances in solids is of interest in many branches of the physical sciences and engineering This book aims to present an account of the theory of wave propagation in elastic solids The material is arranged to present an exposition of the basic concepts of mechanical wave propagation within a one dimensional setting and a discussion of formal aspects of elastodynamic theory in three dimensions followed by chapters expounding on typical wave propagation phenomena such as radiation reflection refraction propagation in waveguides and diffraction The treatment necessarily involves considerable mathematical analysis The pertinent mathematical techniques are however discussed at some length

Wave Propagation in Elastic Solids and Solid-fluid Mixtures R. J. Atkin, 1967

Wave Propagation in Elastic Solids J. D.

Achenbach,1973 The propagation of mechanical disturbances in solids is of interest in many branches of the physical sciences and engineering This book aims to present an account of the theory of wave propagation in elastic solids The material is arranged to present an exposition of the basic concepts of mechanical wave propagation within a one dimensional setting and a discussion of formal aspects of elastodynamic theory in three dimensions followed by chapters expounding on typical wave propagation phenomena such as radiation reflection refraction propagation in waveguides and diffraction The treatment necessarily involves considerable mathematical analysis The pertinent mathematical techniques are however discussed at some length

Wave Propagation in Solid and Porous Half-Space Media 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

Inhomogeneous Waves in Solids and Fluids Giacomo Caviglia, Angelo Morro, 1992 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

Waves in Fluids and Solids Fred Gajos, 2016-10-01 Wave propagation is any of the ways in which waves travel With respect to the direction of the oscillation relative to the propagation direction we can distinguish between longitudinal wave and transverse waves For electromagnetic waves propagation may occur in a vacuum as well as in a material medium Other wave types cannot propagate through a vacuum and need a transmission medium to exist Mechanical waves are waves which propagate through a material medium solid liquid or gas at a wave speed which depends on the elastic and inertial properties of that medium Waves in Fluids and Solids is intended to emphasize and to compare the various aspects of interest which include the necessary mathematical background constitutive theories for material of differential type polarized and shock waves and second sound in solids at low temperatures This book is focused on acoustic waves in fluid media and elastic perturbations in heterogeneous media Many different systems are analyzed in this book like layered media solitons piezoelectric substrates crystalline systems granular materials interface waves phononic crystals acoustic levitation and soft media

Handbook of

Elastic Properties of Solids, Liquids, and Gases, Four-Volume Set Moises Levy, Henry Bass, Richard Stern, 2000-10-23 Sound waves propagate through galactic space through two dimensional solids through biological systems through normal and dense stars and through everything that surrounds us the earth the sea and the air We use sound to locate objects to identify objects to understand processes going on in nature to communicate and to entertain The elastic properties of materials determine the velocity of sound in them and tell us about their response to stresses something which is very important when we are trying to construct manufacture or create something with any material The Handbook of Elastic Properties of Materials will provide these characteristics for almost everything whose elastic properties has ever been measured or deduced in a concise and approachable manner Leading experts will explain the significance of the elastic properties as they relate to intrinsic microscopic behavior to manufacturing to construction or to diagnosis They will discuss the propagation of sound in newly discovered or created materials and in common materials which are being investigated with a fresh outlook The Handbook will provide the reader with the elastic properties of the common and mundane the novel and unique the immense and the microscopic and the exorbitantly dense and the ephemeral You will also find the measurement And theoretical techniques that have been developed and invented in order to extract these properties from a reluctant nature and recalcitrant systems Key Features Solids liquids and gases covered in one handbook Articles by experts describing insights developed over long and illustrious careers Properties of esoteric substances such as normal and dense stars superfluid helium three fullness two dimensional solids extraterrestrial substances gems and planetary atmospheres Properties of common materials such as food wood used for musical instruments paper cement and cork Modern dynamic elastic properties measurement techniques *Mechanical Waveguides* Martin Redwood, 1960 *Noise Programs of Professional/Industrial Organizations, Universities, and Colleges* United States. Office of Noise Abatement and Control, 1971

Fundamentals and Applications of Ultrasonic Waves J. David N. Cheeke, 2017-12-19 Written at an intermediate level in a way that is easy to understand Fundamentals and Applications of Ultrasonic Waves Second Edition provides an up to date exposition of ultrasonics and some of its main applications Designed specifically for newcomers to the field this fully updated second edition emphasizes underlying physical concepts over mathematics The first half covers the fundamentals of ultrasonic waves for isotropic media Starting with bulk liquid and solid media discussion extends to surface and plate effects at which point the author introduces new modes such as Rayleigh and Lamb waves This focus on only isotropic media simplifies the usually complex mathematics involved enabling a clearer understanding of the underlying physics to avoid the complicated tensorial description characteristic of crystalline media The second part of the book addresses a broad spectrum of industrial and research applications including quartz crystal resonators surface acoustic wave devices MEMS and microacoustics and acoustic sensors It also provides a broad discussion on the use of ultrasonics for non destructive evaluation The author concentrates on the developing area of microacoustics including exciting new work on the use of probe

microscopy techniques in nanotechnology Focusing on the physics of acoustic waves as well as their propagation technology and applications this book addresses viscoelasticity as well as new concepts in acoustic microscopy It updates coverage of ultrasonics in nature and developments in sonoluminescence and it also compares new technologies including use of atomic force acoustic microscopy and lasers Highlighting both direct and indirect applications for readers working in neighboring disciplines the author presents particularly important sections on the use of microacoustics and acoustic nanoprobe in next generation devices and instruments

Mechanics of Continua and Wave Dynamics Leonid M. Brekhovskikh, Valery Goncharov, 1993-12-20 Mechanics of Continua and Wave Dynamics is a textbook for a course on the mechanics of solids and fluids with the emphasis on wave theory The material is presented with simplicity and clarity but also with mathematical rigor Many wave phenomena especially those of geophysical nature different types of waves in the ocean seismic waves in the earth crust wave propagation in the atmosphere etc are considered Each subject is introduced with simple physical concepts using numerical examples and models The treatment then goes into depth and complicated aspects are illustrated by appropriate generalizations Numerous exercises with solutions will help students to comprehend and assimilate the ideas

Springer Handbook of Acoustics Thomas Rossing, 2015-01-15 Acoustics the science of sound has developed into a broad interdisciplinary field encompassing the academic disciplines of physics engineering psychology speech audiology music architecture physiology neuroscience and others Here is an unparalleled modern handbook reflecting this richly interdisciplinary nature edited by one of the acknowledged masters in the field Thomas Rossing Researchers and students benefit from the comprehensive contents spanning animal acoustics including infrasound and ultrasound environmental noise control music and human speech and singing physiological and psychological acoustics architectural acoustics physical and engineering acoustics medical acoustics and ocean acoustics The Springer Handbook of Acoustics reviews the most important areas of acoustics with emphasis on current research The authors of the various chapters are all experts in their fields Each chapter is richly illustrated with figures and tables The latest research and applications are incorporated throughout e g computer recognition and synthesis of speech physiological acoustics psychological acoustics thermoacoustics diagnostic imaging and therapeutic applications and acoustical oceanography This new edition of the Handbook features over 11 revised and expanded chapters new illustrations and two new chapters covering microphone arrays acoustic metamaterials and acoustic emission These improvements will make the handbook even more useful as a reference and a guide for researchers and students in every branch of acoustics Praise for the first edition This treatise is a successful attempt to cover in one book the diverse field of acoustics which ranges from physics to music and from formal mathematics to technological applications It is this reviewer's opinion that a handbook like Rossing's which covers the whole field of acoustics serves a real purpose because it not only gives one a chance to see how one's specialty is covered but it also permits one to make a quick survey of other acoustical areas Leo Beranek American Journal of Physics Vol 77 12 December

2009 The Springer Handbook of Acoustics falls into that exceptional list every physics department should have a copy available John L Hubisz The Physics Teacher Vol 48 March 2010 This handbook is an excellent addition to the acoustics literature The handbook nicely covers both basics and advances in several areas of acoustics Several chapters provide good mathematical depth making the handbook useful as a research and technical resource Overall a very useful educational and research resource Summing Up Recommended Upper division undergraduates through professionals M G Prasad CHOICE Vol 45 5 January 2008 This book covers a wide range of topics and the inclusion of musical acoustics computer and electronic music appeal to me singer song writer performer and recording studio co owner This handbook is probably well suited for an undergraduate level introduction to an acoustics course The wide range of topics inclusion of music related chapters eye pleasing presentations and other useful features make this a very good book to have on your shelf Tim Casey International Journal of Acoustics and Vibration Vol 13 1 2008 The Springer Handbook of Acoustics comprises 28 chapters written by 33 authors The Handbook of Acoustics is useful as a source book for anyone who needs or wants to become familiar with the jargon and issues related to a specific subfield of acoustics Robert I Odom Siam Review Vol 50 3 2008 The Springer Handbook of Acoustics reviews the most important areas of acoustics with emphasis on current research The authors of the various chapters are all experts in their fields Each chapter is richly illustrated with figures and tables The latest research and applications are incorporated throughout e g computer recognition and synthesis of speech physiological acoustics psychological acoustics thermoacoustics diagnostic imaging and therapeutic applications and acoustical oceanography This new edition of the Handbook features over 13 revised and expanded chapters new illustrations and 3 new chapters covering microphone arrays acoustic metamaterials and acoustic emission These improvements will make the handbook even more useful as a reference and a guide for researchers and students in every branch of acoustics

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