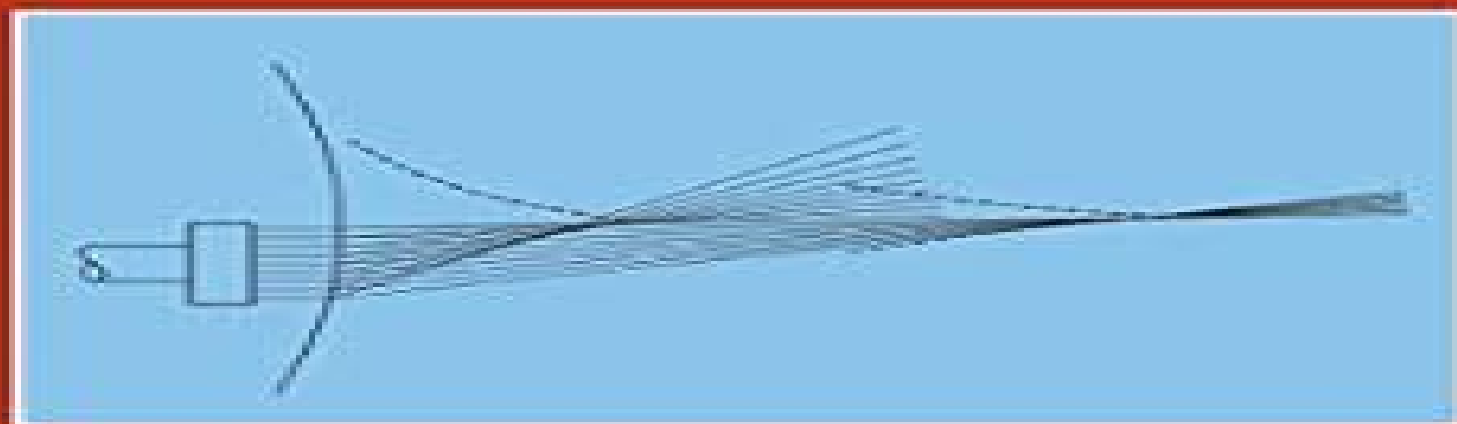


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Drumheller, 1994-09-06 This volume outlines the basic concepts and methods of the theory of wave propagation in elastic materials The linear theory of elasticity is covered culminating in the displacement equations of motion One dimensional waves are analyzed through the D'Alembert solution **Introduction to Elastic Wave Propagation** Anthony

Bedford, Douglas S. Drumheller, 2023-10-04 This revised and updated edition expands on its explanations of methods used to analyze waves in solid materials such as the waves created by earthquakes and the ultrasonic waves used to detect flaws in materials and for medical diagnoses In addition to the traditional methods used to analyze steady state and transient waves in elastic materials the book contains introductions to advanced areas that no other single text covers These topics include the use of finite elements to solve wave problems the Cagniard de Hoop method the four pole technique for analyzing waves in layered media and the growth and decay of shock and acceleration waves The authors explain the theory of linear elasticity through the displacement equations of motion methods used to analyze steady state and transient waves in layered media and include an appendix on functions of a complex variable Originally developed for a graduate course for which no suitable text existed the new edition retains its classroom tested treatment of the theories of linear elasticity and complex variables for students needing background in those subjects **Elastic Waves at High Frequencies** John G.

Harris, 2010-07-22 John G Harris intended to explain in this book the special techniques required to model the radiation and diffraction of elastic and surface waves Sadly he died before he could fulfil this ambition but his plan has been brought to fruition by a team of his distinguished collaborators The book begins with the basic underlying equations for wave motion and then builds upon this foundation by solving a number of fundamental scattering problems The remaining chapters provide a thorough introduction to modern techniques that have proven essential to understanding radiation and diffraction at high frequencies Graduate students researchers and professionals in applied mathematics physics and engineering will find that the chapters increase in complexity beginning with plane wave propagation and spectral analyses Other topics include elastic wave theory the Wiener Hopf technique the effects of viscosity on acoustic diffraction and the phenomenon of channelling of wave energy along guided structures **Nonlinear Elastic Waves in Materials** Jeremiah J.

Rushchitsky, 2014-04-23 The main goal of the book is a coherent treatment of the theory of propagation in materials of nonlinearly elastic waves of displacements which corresponds to one modern line of development of the nonlinear theory of elastic waves The book is divided on five basic parts the necessary information on waves and materials the necessary information on nonlinear theory of elasticity and elastic materials analysis of one dimensional nonlinear elastic waves of displacement longitudinal vertically and horizontally polarized transverse plane nonlinear elastic waves of displacement

analysis of one dimensional nonlinear elastic waves of displacement cylindrical and torsional nonlinear elastic waves of displacement analysis of two dimensional nonlinear elastic waves of displacement Rayleigh and Love nonlinear elastic surface waves The book is addressed first of all to people working in solid mechanics from the students at an advanced undergraduate and graduate level to the scientists professionally interesting in waves But mechanics is understood in the broad sense when it includes mechanical and other engineering material science applied mathematics and physics and so forth The genesis of this book can be found in author's years of research and teaching while a head of department at SP Timoshenko Institute of Mechanics National Academy of Sciences of Ukraine a member of Center for Micro and Nanomechanics at Engineering School of University of Aberdeen Scotland and a professor at Physical Mathematical Faculty of National Technical University of Ukraine KPI The book comprises 11 chapters Each chapter is complemented by exercises which can be used for the next development of the theory of nonlinear waves

The Theory of Elastic Waves and Waveguides J. Miklowitz, 2012-12-02 The primary objective of this book is to give the reader a basic understanding of waves and their propagation in a linear elastic continuum The studies of elastodynamic theory and its application to fundamental value problems should prepare the reader to tackle many physical problems of general interest in engineering and geophysics and of particular interest in mechanics and seismology

Elastic Waves Vassily Babich, Aleksei Kiselev, 2018-04-09 Elastic Waves High Frequency Theory is concerned with mathematical aspects of the theory of high frequency elastic waves which is based on the ray method The foundations of elastodynamics are presented along with the basic theory of plane and spherical waves The ray method is then described in considerable detail for bulk waves in isotropic and anisotropic media and also for the Rayleigh waves on the surface of inhomogeneous anisotropic elastic solids Much attention is paid to analysis of higher order terms and to generation of waves in inhomogeneous media The aim of the book is to present a clear systematic description of the ray method and at the same time to emphasize its mathematical beauty Luckily this beauty is usually not accompanied by complexity and mathematical ornateness

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 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 **Non-linear Elastic Waves Guided by Stress-free Surfaces** David F. Parker,1967 Dispersion Due to Small Non-geometric Effects in Linear Elastic Wave Propagation Adnan H. Nayfeh,1971 *Ultrasound and Elastic Waves* Brian Michael Lempriere,2003-11-13 Ultrasound has found an increasing number of applications in recent years due to greatly increased computing power Ultrasound devices are often preferred over other devices because of their lower cost portability and non invasive nature Patients using ultrasound can avoid the dangers of radiological imaging devices such as x rays CT scans and radioactive media injections Ultrasound is also a preferred and practical method of detecting material fatigue and defects in metals composites semiconductors wood etc Detailed appendices contain useful formulas and their derivations technical details of relevant theories The FAQ format is used where a concept in one answer leads to a new Q *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 Foundations of Stress Waves Lili Wang, 2011-08-26 The primary objective of Foundations of Stress Waves is to give the reader an understanding of stress wave behaviour while taking into account the dynamic constitutive equations of elastic plastic solids The author has combined a materials characteristics approach with a singularity surface approach in this work which readers will find to be a novel and unique route to solving their problems Helps engineers understand the effects and behavior of stress waves in various materials Aids in the process of engineering design testing and evaluation Seismic Resistant Design and Technology Dentcho Ivanov, 2015-06-26 An earthquake is a powerful surface acoustic wave SAW generated by a seismic event such as a volcano or motion of the Earth's layers that propagates on the Earth's surface This book explains the design of earthquake resistant structures using SAW techniques that offer a variety of experimental setups and theoretical models Designs of protective *Theory of waves in materials*, **Elastic Models of Crystal Defects** Cristian Teodosiu, 2013-06-29 **Waves and Imaging through Complex Media** P. Sebbah, 2012-12-06 Recent advances in wave propagation in random media are certainly consequences of new approaches to fundamental issues as well as of a strong interest in potential applications A collective effort has been made to present in this book the state of the art in fundamental concepts as well as in biomedical imaging techniques As an example the recent introduction of wave chaos and more specifically random matrix theory an old tool from nuclear physics to the study of multiple scattering has pointed the way to a deeper understanding of wave coherence in complex media At the same time efficient new approaches for retrieving information from random media promise to allow wave imaging of small tumors in opaque tissues Review chapters are written by experts in the field with the aim of making the book accessible to the widest possible scientific audience graduate students and research scientists in theoretical and applied physics optics acoustics and biomedical physics **Ultrasonic Investigation of Mechanical Properties** Robert E. Green, 1973-01-01 Treatise on Materials Science and Technology Volume 3 Ultrasonic Investigation of Mechanical Properties summarizes the studies of mechanical properties by acoustic methods Aside from a comprehensive examination of acoustic mechanical phenomena fundamental concepts and applications are discussed Topics covered range from linear and nonlinear elastic waves to energy loss from elastic waves ultrasonic attenuation Comprised of four chapters this volume begins with an introduction to the theory of linear elastic wave propagation focusing on wave speeds and particle displacements as well as energy flux isotropic solids and cubic crystals Plane waves propagating along 110 and in arbitrary directions are also considered together with optical visualization of ultrasonic waves and measurement of linear elastic properties The next chapter is devoted to nonlinear elastic waves and measurement of their elastic properties with emphasis on how velocity measurements of elastic waves may be used to determine mechanical properties of solid materials The final chapter analyzes the various mechanisms by which energy can be lost from ultrasonic waves propagating through real solids

and how measurement of the amount of this energy loss can yield valuable information about the mechanical properties of the solid This monograph is intended for professional scientists and engineers as well as graduate students in materials science and associated fields **Introduction to Petroleum Seismology, second edition** Luc T. Ikelle ,Lasse Amundsen,2018-03-26 Introduction to Petroleum Seismology second edition SEG Investigations in Geophysics Series No 12 provides the theoretical and practical foundation for tackling present and future challenges of petroleum seismology especially those related to seismic survey designs seismic data acquisition seismic and EM modeling seismic imaging microseismicity and reservoir characterization and monitoring All of the chapters from the first edition have been improved and or expanded In addition twelve new chapters have been added These new chapters expand topics which were only alluded to in the first edition sparsity representation sparsity and nonlinear optimization near simultaneous multiple shooting acquisition and processing nonuniform wavefield sampling automated modeling elastic electromagnetic mathematical equivalences and microseismicity in the context of hydraulic fracturing Another major modification in this edition is that each chapter contains analytical problems as well as computational problems These problems include MatLab codes which may help readers improve their understanding of and intuition about these materials The comprehensiveness of this book makes it a suitable text for undergraduate and graduate courses that target geophysicists and engineers as well as a guide and reference work for researchers and professionals in academia and in the petroleum industry

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