

# Mechanics of Continua and Wave Dynamics (Springer Series on Wave Phenomena)

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# Mechanics Of Continua And Wave Dynamics

**Mezhlum A. Sumbatyan**



## **Mechanics Of Continua And Wave Dynamics:**

Mechanics of Continua and Wave Dynamics Leonid M. Brekhovskikh, Valery Goncharov, 2012-12-06 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 Mechanics of Continua and Wave Dynamics Leonid M. Brekhovskikh, Valery Goncharov, 2011-12-28 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 **Mechanics of Continua and Wave Dynamics** L. Brekhovskikh, V. Goncharov, 1985-06-01 Nonlinear Wave Dynamics of Materials and Structures Holm Altenbach, Victor A. Eremeyev, Igor S. Pavlov, Alexey V. Porubov, 2020-04-22 This book marks the 60th birthday of Prof Vladimir Erofeev a well known specialist in the field of wave processes in solids fluids and structures Featuring a collection of papers related to Prof Erofeev's contributions in the field it presents articles on the current problems concerning the theory of nonlinear wave processes in generalized continua and structures It also discusses a number of applications as well as various discrete and continuous dynamic models of structures and media and problems of nonlinear acoustic diagnostics Wave Dynamics and Composite Mechanics for Microstructured Materials and Metamaterials Mezhlum A. Sumbatyan, 2017-03-28 This volume deals with topical problems concerning technology and design in construction of modern metamaterials The authors construct the models of mechanical electromechanical and acoustical behavior of the metamaterials which are founded upon mechanisms existing on micro level in interaction of elementary structures of the material The empiric observations on the phenomenological level are used to test the created models The book provides solutions based on fundamental methods and models using the theory of wave propagation nonlinear theories and composite mechanics for media with micro and nanostructure They include the models containing arrays of cracks defects with presence of micro and nanosize piezoelectric elements and coupled physical mechanical fields of different nature The investigations show that the analytical numerical and experimental methods permit evaluation of the qualitative and quantitative properties of the materials of this sort with

diagnosis of their effective characteristics frequency intervals of effective energetic cutting and passing as well as effective regimes of damage evaluation by the acoustic methods

**A Data Engineering Approach to Wave Scattering Analysis with Applications in Radar, Sonar, Medical Diagnostics, Structural Flaw Detection and Intelligent Robotics** Mark K. Hinders, 2024-12-04 Comprehensive resource exploring how recent advancements in computational capabilities open doors to new applications in wave scattering A Data Engineering Approach to Wave Scattering Analysis with Applications in Radar Sonar Medical Diagnostics Structural Flaw Detection and Intelligent Robotics applies scattering analysis to many applications including radar sonar medical diagnosis intelligent robotics and more enabling readers to implement new and better measurements with both novel instrumentation and artificial intelligence that automates the interpretation of various and multiple imaging data streams Composed of 10 chapters this book brings together separate scientific topics that share a common basis of knowledge and their unchanged mathematical techniques to ensure successful results Through periodic exercises this book reinforces the importance of revisiting derivations and reproducing established results It also delves into the individuals who shaped scientific methods and technologies exploring 81 notable names and providing insights into their professional journeys Classic results from scattering are included in each chapter and rather than simply pasting in plots from classic papers these results have largely been reproduced for a more coherent reader experience Written by an established academic in the field A Data Engineering Approach to Wave Scattering Analysis with Applications in Radar Sonar Medical Diagnostics Structural Flaw Detection and Intelligent Robotics includes information on various topics Field equations covering strain as a dimensionless measure of deformation generalized Hooke's Law and elastic and acoustic waves Reflection and refraction covering reflection from a free surface and surface waves as well as the wave model of acoustic microscopy Guided waves covering torsional modes longitudinal waves and flexural waves in rods as well as data engineering for lamb wave tomography Inverse scattering covering wavelet transforms and fingerprinting as well as applications of wavelet fingerprints such as roof fall detection A Data Engineering Approach to Wave Scattering Analysis with Applications in Radar Sonar Medical Diagnostics Structural Flaw Detection and Intelligent Robotics is an essential up to date reference on the subject for researchers interested in radar sonar medical imaging structural health monitoring manufacturing process control and autonomous vehicles as well as upper level undergraduates and graduate students in related programs of study

**Electromagnetic Wave Propagation in Turbulence** Richard J. Sasiela, 2012-12-06 Electromagnetic Wave Propagation in Turbulence is devoted to a method for obtaining analytical solutions to problems of electromagnetic wave propagation in turbulence In a systematic way the monograph presents the Mellin transforms to evaluate analytically integrals that are not in integral tables Ample examples of application are outlined and solutions for many problems in turbulence theory are given The method itself relates to asymptotic results that are applicable to a broad class of problems for which many asymptotic methods had to be employed previously

**Wave Dynamics, Mechanics and**

**Physics of Microstructured Metamaterials** Mezhlum A. Sumbatyan, 2019-05-17 This book addresses theoretical and experimental methods for exploring microstructured metamaterials with a special focus on wave dynamics mechanics and related physical properties The authors use various mathematical and physical approaches to examine the mechanical properties inherent to particular types of metamaterials These include Boundary value problems in reduced strain gradient elasticity for composite fiber reinforced metamaterials Self organization of molecules in ferroelectric thin films Combined models for surface layers of nanostructures Computer simulation at the micro and nanoscale Surface effects with anisotropic properties and imperfect temperature contacts Inhomogeneous anisotropic metamaterials with uncoupled and coupled surfaces or interfaces Special interface finite elements and other numerical and analytical methods for composite structures

*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 **Vibrations and**

**Waves (Part B: Waves)** S. Kaliski, 2013-10-22 This book gives a comprehensive overview of wave phenomena in different media with interacting mechanical electromagnetic and other fields Equations describing wave propagation in linear and non linear elastic media are followed by equations of rheological models models with internal rotational degrees of freedom and non local interactions Equations for coupled fields thermal elastic electromagnetic piezoelectric and magneto spin with adequate boundary conditions are also included Together with its companion volume **Vibrations and Waves Part A Vibrations** this work provides a wealth of information about dynamical phenomena in different media and fields which will be of considerable interest to both scientists and graduate students **Rayleigh-Wave Theory and Application** Eric A.

Ash, Edward G.S. Paige, 2012-12-06 There is no respect for mere age in Science or Technology Yet the centenary of the discovery by the third Lord Rayleigh that elastic waves can be guided by a surface is memorable for the contradictions which it encompasses Rayleigh's assessment of his classic 1885 paper as a rather minor mathematical development with a potential

value only in seismology on the one hand on the other the rediscovery of the subject in a totally that of electronic signal processing which has led to its different field explosive growth over the last twenty years The new surface acoustic wave SAW devices have proved to be per electronic components Today almost all television receivers contain one or more SAW filters sophisticated radars depend on SAW signal processing and SAW devices have been incorporated in ultra high performance optoelectronic systems With the objective of surveying these developments and attempting to predict those that can be foreseen as well as marking the centenary of Lord Rayleigh's discovery The Rank Prize Funds Committee for Optoelectronics organised a symposium in London in July 1985 It was held in the Royal Institution London where Rayleigh himself once worked and often lectured The present volume is the tangible outcome of the symposium In which international experts surveyed their various fields and presented the most exciting recent developments

*Caustics, Catastrophes and Wave Fields* Yu.A. Kravtsov, Yu.I. Orlov, 2012-12-06 *Caustics Catastrophes and Wave Fields* in a sense continues the treatment of the earlier volume 6 *Geometrical Optics of Inhomogeneous Media* in the present book series by analysing caustics and their fields on the basis of modern catastrophe theory This volume covers the key generalisations of geometrical optics related to caustic asymptotic expansions The Lewis Kravtsov method of standard functions Maslov's method of canonical operators Orlov's method of interference integrals as well as their modifications for penumbra space time random and other types of caustics All the methods are amply illustrated by worked problems concerning relevant wave field applications

**Acoustic and Elastic Wave Fields in Geophysics** Alexander A. Kaufman, Anatoli L. Levshin, 2000 This monograph is the last volume in the series *Acoustic and Elastic Wave Fields in Geophysics* The previous two volumes published by Elsevier 2000 2002 dealt mostly with wave propagation in liquid media The third volume is dedicated to propagation of plane spherical and cylindrical elastic waves in different media including isotropic and transversely isotropic solids liquid solid models and media with cylindrical inclusions boreholes Prevalence of physical reasoning on formal mathematical derivations Readers do not need to have a strong background in mathematics and mathematical physics Detailed analysis of wave phenomena in various types of elastic and liquid elastic media

**Scalar Wave Theory** John DeSanto, 2012-12-06 This book comprises some of the lecture notes I developed for various one or two semester courses I taught at the Colorado School of Mines The main objective of all the courses was to introduce students to the mathematical aspects of wave theory with a focus on the solution of some specific fundamental problems These fundamental solutions would then serve as a basis for more complex wave propagation and scattering problems Although the courses were taught in the mathematics department the audience was mainly not mathematicians It consisted of graduate science and engineering majors with a varied background in both mathematics and wave theory in general I believed it was necessary to start from fundamental principles of both advanced applied mathematics as well as wave theory and to develop them both in some detail The notes reflect this type of development and I have kept this detail in the text I believe it essential in technical careers to see this detailed development at least once This volume

consists of five chapters The first two on Scalar Wave Theory Chapter 1 and Green's Functions Chapter 2 are mainly mathematical although in Chapter 1 the wave equation is derived from fundamental physical principles More complicated problems involving spatially and even temporally varying media are briefly introduced

*Optical Remote Sensing of Ocean Hydrodynamics* Victor Raizer, 2019-03-04 Optical Remote Sensing is one of the main technologies used in sea surface monitoring Optical Remote Sensing of Ocean Hydrodynamics investigates and demonstrates capabilities of optical remote sensing technology for enhanced observations and detection of ocean environments It provides extensive knowledge of physical principles and capabilities of optical observations of the oceans at high spatial resolution 1 4m and on the observations of surface wave hydrodynamic processes It also describes the implementation of spectral statistical and fusion algorithms for analyses of multispectral optical databases and establishes physics based criteria for detection of complex wave phenomena and hydrodynamic disturbances including assessment and management of optical databases This book explains the physical principles of high resolution optical imagery of the ocean surface discusses for the first time the capabilities of observing hydrodynamic processes and events and emphasizes the integration of optical measurements and enhanced data analysis It also covers both the assessment and the interpretation of dynamic multispectral optical databases and includes applications for advanced studies and nonacoustic detection This book is an invaluable resource for researches industry professionals engineers and students working on cross disciplinary problems in ocean hydrodynamics optical remote sensing of the ocean and sea surface remote sensing Readers in the fields of geosciences and remote sensing applied physics oceanography satellite observation technology and optical engineering will learn the theory and practice of optical interactions with the ocean

**Acoustics of Layered Media I** Leonid M. Brekhovskikh, Oleg A. Godin, 2012-12-06 This monograph is devoted to the systematic presentation of the theory of sound wave propagation in layered structures These structures can be man made such as ultrasonic filters lenses surface wave delay lines or natural media such as the ocean and the atmosphere with their marked horizontal stratification A related problem is the propagation of elastic seismic waves in the earth's crust These topics have been treated rather completely in the book by L M Brekhovskikh *Waves in Layered Media* the English version of the second edition of which was published by Academic Press in 1980 Due to progress in experimental and computer technology it has become possible to analyze the influence of factors such as medium motion and density stratification upon the propagation of sound waves Much attention has been paid to propagation theory in near stratified media Le media with small deviations from strict stratification Interesting results have also been obtained in the fields of acoustics which had been previously considered to be completely developed For these reasons and also because of the inflow of researchers from the related fields of physics and mathematics the circle of persons and research groups engaged in the study of sound propagation has rather expanded Therefore the appearance of a new summary review of the field of acoustics of layered media has become highly desirable Since *Waves in Layered Media* became quite popular we have

tried to retain its positive features and general structure

Seismic Waves and Rays in Elastic Media M.A.

Slawinski, 2003-08-04 This book seeks to explore seismic phenomena in elastic media and emphasizes the interdependence of mathematical formulation and physical meaning The purpose of this title which is intended for senior undergraduate and graduate students as well as scientists interested in quantitative seismology is to use aspects of continuum mechanics wave theory and ray theory to describe phenomena resulting from the propagation of waves The book is divided into three parts Elastic continua Waves and rays and Variational formulation of rays In Part I continuum mechanics are used to describe the material through which seismic waves propagate and to formulate a system of equations to study the behaviour of such material In Part II these equations are used to identify the types of body waves propagating in elastic continua as well as to express their velocities and displacements in terms of the properties of these continua To solve the equations of motion in anisotropic inhomogeneous continua the high frequency approximation is used and establishes the concept of a ray In Part III it is shown that in elastic continua a ray is tantamount to a trajectory along which a seismic signal propagates in accordance with the variational principle of stationary travel time

Pulses and Other Wave Processes in Fluids M. Kelbert, I.A.

Sazonov, 2013-03-09 The subject of wave phenomena is well known for its inter disciplinary nature Progress in this field has been made both through the desire to solve very practical problems arising in acoustics optics radiophysics electronics oceanography meteorology and so on and through the development of mathematical physics which emphasized that completely different physical phenomena are governed by the same or similar equations In the immense literature on physics of waves there is no lack of good presentations of particular branches or general textbooks on mathematical physics But if one restricts the attention to pulse propagation phenomena one notices that many useful facts are scattered among the various books and journals and their connections are not immediately apparent For example the problems involving acoustic pulse propagation in bubbly liquids and those related to electromagnetic pulses in resonant media are usually treated without much cross reference in spite of their obvious connections The authors of this book have attempted to write a coherent account of a few pulse propagation problems selected from different branches of applied physics Although the basic material on linear pulse propagation is included some topics have their own unique twists and a comprehensive treatment of this body of material can hardly be found in other sources First of all the problem of pulse propagation in non equilibrium media unstable or admitting attenuation is far more delicate than it is apparent at a first glance

**Nonlinear Wave**

**Dynamics** J. Engelbrecht, 2013-04-17 At the end of the twentieth century nonlinear dynamics turned out to be one of the most challenging and stimulating ideas Notions like bifurcations attractors chaos fractals etc have proved to be useful in explaining the world around us be it natural or artificial However much of our everyday understanding is still based on linearity i.e. on the additivity and the proportionality The larger the excitation the larger the response this seems to be carved in a stone tablet The real world is not always reacting this way and the additivity is simply lost The most convenient way to



describe such a phenomenon is to use a mathematical term nonlinearity The importance of this notion i e the importance of being nonlinear is nowadays more and more accepted not only by the scientific community but also globally The recent success of nonlinear dynamics is heavily biased towards temporal characterization widely using nonlinear ordinary differential equations Nonlinear spatio temporal processes i e nonlinear waves are seemingly much more complicated because they are described by nonlinear partial differential equations The richness of the world may lead in this case to coherent structures like solitons kinks breathers etc which have been studied in detail Their chaotic counterparts however are not so explicitly analysed yet The wavebearing physical systems cover a wide range of phenomena involving physics solid mechanics hydrodynamics biological structures chemistry etc      *Mechanics of Fibrous Materials and Applications* Catalin Picu, Jean-François Ganghoffer, 2019-07-31 The book explores the state of the art in the mechanics of fibrous media providing an overview of the theoretical modelling and practical aspects of designing and working with these materials It also describes the advanced methods needed to handle their specific features including the mechanics of generalized continua dedicated homogenization methods and computational techniques and presents applications of fibrous media to diverse fields and over a broad spectrum of scales ranging from aeronautics to biomechanics

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