

Waves in Layered Media

Second Edition

L. M. BREKHOVSKIKH

Applied Mathematics and Mechanics

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Waves In Layered Media Brekhovskikh

**Baldev Raj,V. Rajendran,P.
Palanichamy**



Waves In Layered Media Brekhovskikh:

Waves in Layered Media L Brekhovskikh, 2012-12-02 *Waves in Layered Media* discusses different theories about the relationship between waves and media. The book specifically covers several factors that can affect the behavior and formation of various kinds of waves in different types of media. Comprised of nine chapters, the book establishes the fundamentals by first tackling simplest concepts such as the behavior plane wave and discretely layered media. The succeeding chapters cover much more complex ideas such as the refraction and reflection of waves spherical wave and wave in inhomogeneous media. The book will be a great asset to researchers whose work involves acoustics or to professionals whose line of work involves sound waves.

Waves in Layered Media Leonid Brekhovskikh, 2012-12-02 *Waves in Layered Media* focuses on the theory of the propagation of elastic and electromagnetic waves in layered media. This book presents a complete report of Soviet researches on wave propagation through layered media. Organized into six chapters, this book starts with an overview of the theory of wave reflection from layers and interfaces. This text then examines some of the representations and methods which are common to different branches of physics. Other chapters define the reflection reduction of optical waves as the lowering of the reflection coefficient at the air glass boundaries by depositing thin layers of several materials on the glass. This book discusses as well the field of a concentrated source situated in a layered inhomogeneous medium which is one of the main problems in modern radiophysics, acoustics and the physics of the Earth's crust. The final chapter deals with wave propagation in layered inhomogeneous media. This book is a valuable resource for engineers, scientists and physicists.

Acoustics of Layered Media II Leonid M. Brekhovskikh, Oleg Godin, 2014-03-12 This is the sequel to our book *Acoustics of Layered Media I: Plane and Quasi Plane Waves* Springer Ser Wave Phenom Vol 5. Taken together, these two monographs present a systematic exposition of the theory of sound propagation in inhomogeneous media which starts from first principles and includes recent results. More advanced topics are considered in this second volume. Although the theory of wave beams and fields of localized sources is more sophisticated than the theory of quasi plane waves, it embraces a much wider range of interesting problems that are also important for applications. We exploit the results of *Acoustics of Layered Media I* as long as it is expedient to consider sound fields as a superposition of plane or quasi plane waves. However, the knowledgeable reader will view this book as self-contained. Similar topics have been treated 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. Since *Waves in Layered Media* became very popular, we have tried here to retain its spirit. However, the majority of this text is devoted to new material which reflects the significant progress of the theory during recent years. In particular, acoustic fields in a moving fluid are considered and much attention is paid to sound propagation in range dependent environments which is currently on the leading edge of research activities.

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

Acoustics of Layered Media I Leonid Maksimovich

Brekhovskikh, Oleg A. Godin, 1990 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

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Leonid Maksimovich Brekhovskikh, 1972 **Waves in Layered Media** Leonid M. Brechovskich, 1980 **Electromagnetic Waves** Carlo G. Someda, 2017-12-19 Adapted from a successful and thoroughly field tested Italian text the first edition of Electromagnetic Waves was very well received Its broad integrated coverage of electromagnetic waves and their applications forms the cornerstone on which the author based this second edition Working from Maxwell s equations to applications in optical communications and photonics Electromagnetic Waves Second Edition forges a link between basic physics and real

life problems in wave propagation and radiation Accomplished researcher and educator Carlo G Someda uses a modern approach to the subject Unlike other books in the field it surveys all major areas of electromagnetic waves in a single treatment The book begins with a detailed treatment of the mathematics of Maxwell's equations It follows with a discussion of polarization delves into propagation in various media devotes four chapters to guided propagation links the concepts to practical applications and concludes with radiation diffraction coherence and radiation statistics This edition features many new and reworked problems updated references and suggestions for further reading a completely revised appendix on Bessel functions and new definitions such as antenna effective height Illustrating the concepts with examples in every chapter Electromagnetic Waves Second Edition is an ideal introduction for those new to the field as well as a convenient reference for seasoned professionals

Acoustics of Layered Media II Leonid M. Brekhovskikh, Oleg Godin, 1999-03-25 Acoustics of Layered Media II presents the theory of sound propagation and reflection of spherical waves and bounded beams in layered media It is mathematically rigorous but at the same time care is taken that the physical usefulness in applications and the logic of the theory are not hidden Both moving and stationary media discretely and continuously layered including a range dependent environment are treated for various types of acoustic wave sources Detailed appendices provide further background on the mathematical methods This second edition reflects the notable recent progress in the field of acoustic wave propagation in inhomogeneous media

WAVES IN LAYERED MEDIA. L.M. BREKHOVSKIKH, 1980 **Acoustics of Layered Media**, 1990

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

Infrasound Propagation in an Anisotropic Fluctuating Atmosphere Igor Chunchuzov, Sergey Kulichkov, 2020-02-28 This book presents the theory and results of experimental studies of the propagation of infrasound waves in a real atmosphere with its inherent fine scale layered structure of wind speed and temperature It is motivated by the fact that the statistical characteristics of anisotropic or

layered fluctuations of meteorological fields the horizontal scales of which significantly exceed their vertical scales have been very poorly studied compared to those of locally isotropic turbulence in the inertial range of scales This book addresses this lacuna by developing a theory of the formation of anisotropic inhomogeneities of the atmosphere in a random field of internal gravity waves and vortex structures Using theory it explains numerous experimental data depicting the influence of the fine structure of the atmosphere on the propagation of infrasound waves from pulsed sources The text will appeal to specialists in the fields of acoustics and optics of the atmosphere remote sensing of the atmosphere the dynamics of internal waves nonlinear acoustics and infrasound monitoring of explosions and natural hazards

History Of Russian Underwater Acoustics Oleg A Godin, David R Palmer, 2008-02-01 This book describes using first person accounts the history of the development in the Soviet Union and later in Russia of an extremely important technical field and how that history was influenced by WWI WWII and the Cold War by government bureaucracy in both positive and negative ways by the economic collapse of the Soviet Union and most importantly by the dedicated efforts of vast numbers of individuals including some of the greatest scientific minds of the 20th century It will make fascinating reading for engineers and scientists who were engaged in similar work in the West for historians of the Cold War and of the Soviet Union and for present day researchers who need to learn about Russian scientific contributions Because of its importance to national security much of the research and development effort in underwater acoustics was classified during the Cold War both in the Soviet Union and the United States This book presents the first declassified accounts of the development of numerous hydroacoustic systems by individuals having first hand knowledge of the development efforts

Science and Technology of Ultrasonics Baldev Raj, V. Rajendran, P. Palanichamy, 2004 This work covers the basics for an understanding of ultrasonics and its potential applications in important fields of science and technology Transducers and Instrumentation are dealt in individual chapters due to their prime importance in ultrasonic applications Topics covered are applications of ultrasound science and technology for materials characterization NDT underwater acoustics medical ultrasound and molecular interaction

Marine Acoustics James L. Buchanan, Robert P. Gilbert, Armand Wirgin, Yongzhi Xu, 2004-01-01 This book presents current research trends in the field of underwater acoustic wave direct and inverse problems Until very recently little has been published concerning model based inversions of the boundaries and material constants of finite sized targets located either in the water column or the sediments This text is the first to investigate inverse problems in an ocean environment with a heavy emphasis placed on the description and resolution of the forward scattering problem

Seismic Wave Theory Edward S. Krebes, 2019-03-28 Perfect for senior undergraduates and first year graduate students in geophysics physics mathematics geology and engineering this book is devoted exclusively to seismic wave theory The result is an invaluable teaching tool with its detailed derivations of formulas clear explanations of topics exercises along with selected answers and an additional set of exercises with derived answers on the book's website Some highlights of the text include a review of vector calculus and

Fourier transforms and an introduction to tensors which prepare readers for the chapters to come and a detailed discussion on computing reflection and transmission coefficients a topic of wide interest in the field a discussion in later chapters of plane waves in anisotropic and anelastic media which serves as a useful introduction to these two areas of current research in geophysics Students will learn to understand seismic wave theory through the book's clear and concise pedagogy

Proceedings, Workshop on Seismic Propagation in Shallow Water, 6-7 July 1978, Washington, D.C., 1979

Sound Transmission Through a Fluctuating Ocean Roger Dashen, Walter H. Munk, Kenneth M. Watson, 2010-06-10 This 1979 book attempts to connect the known structure of the ocean volume with experimental results in long range sound transmission through the theory of wave propagation and the path integral approach The book is written at the post graduate level but has been carefully organised to give experimenters a grasp of important results without undue mathematics

Variational and Extremum Principles in Macroscopic Systems Stanislaw Sieniutycz, Henrik Farkas, 2010-07-07

Recent years have seen a growing trend to derive models of macroscopic phenomena encountered in the fields of engineering physics chemistry ecology self organisation theory and econophysics from various variational or extremum principles Through the link between the integral extremum of a functional and the local extremum of a function explicit for example in the Pontryagin's maximum principle variational and extremum principles are mutually related Thus it makes sense to consider them within a common context The main goal of *Variational and Extremum Principles in Macroscopic Systems* is to collect various mathematical formulations and examples of physical reasoning that involve both basic theoretical aspects and applications of variational and extremum approaches to systems of the macroscopic world The first part of the book is focused on the theory whereas the second focuses on applications The unifying variational approach is used to derive the balance or conservation equations phenomenological equations linking fluxes and forces equations of change for processes with coupled transfer of energy and substance and optimal conditions for energy management A unique multidisciplinary synthesis of variational and extremum principles in theory and application A comprehensive review of current and past achievements in variational formulations for macroscopic processes Uses Lagrangian and Hamiltonian formalisms as a basis for the exposition of novel approaches to transfer and conversion of thermal solar and chemical energy

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