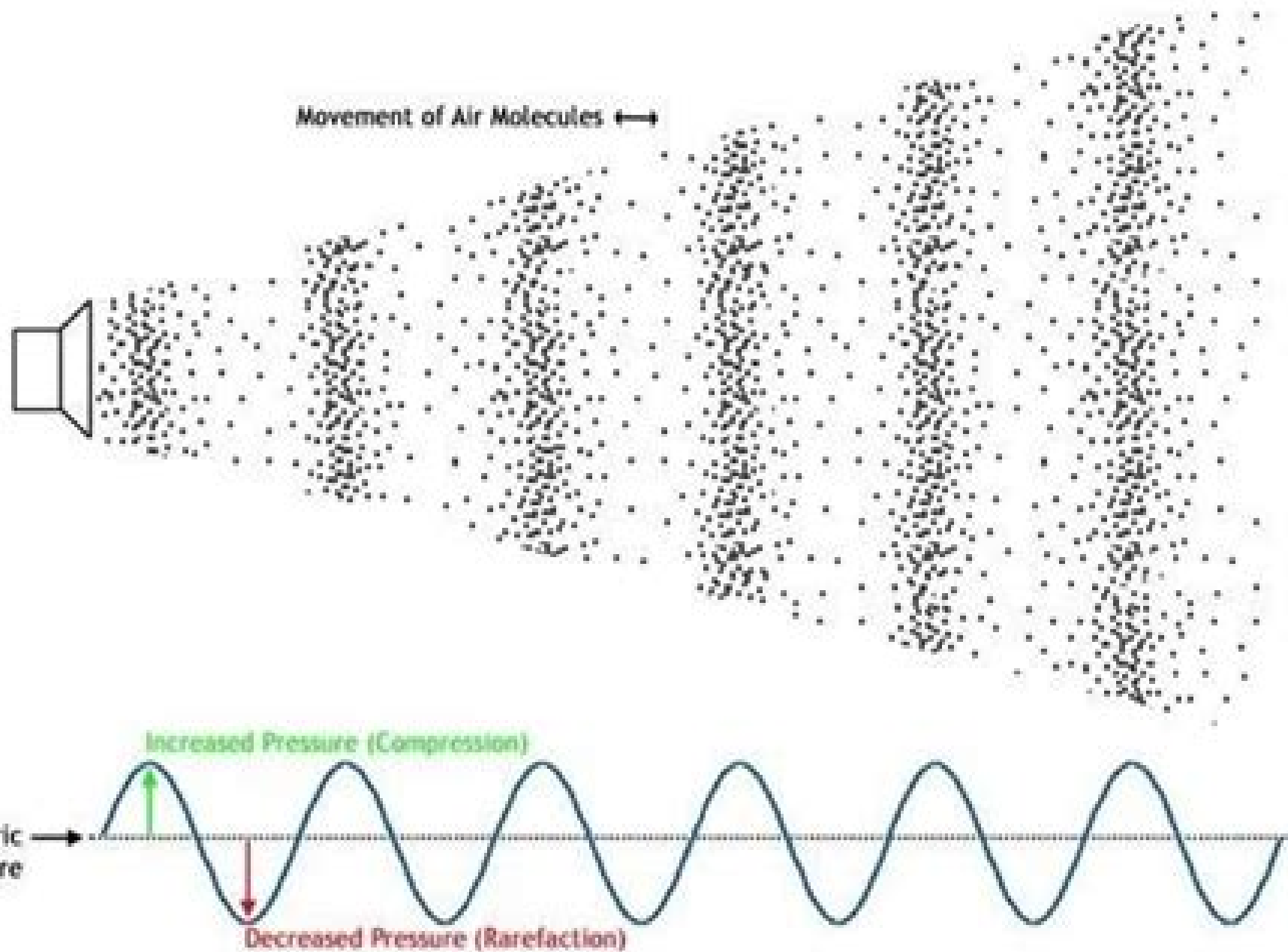


Sound Propagation



Sound Propagation Sound Propagation

Louis Vessot King



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Sound Propagation in the Sea Robert J. Urick, 1979 *Propagation of Sound in Porous Media* Jean Allard, Nouredine Atalla, 2009-10-27 The first edition of this book is considered the bible of this topic. Suffice it to say that there is no other published treatise that approaches the depth of treatment offered by this book. The coverage is the state of the published art while the added contents cover the new known developments in the field. Haisam Osman, Technology Development Manager, United Launch Alliance. This long awaited second edition of a respected text from world leaders in the field of acoustic materials covers the state of the art with a depth of treatment unrivalled elsewhere. Allard and Atalla employ a logical and progressive approach that leads to a thorough understanding of porous material modelling. The first edition of *Propagation of Sound in Porous Media* introduced the basic theory of acoustics and the related techniques. Research and development in sound absorption has however progressed significantly since the first edition and the models and methods described at the time highly technical and specialized have since become main stream. In this second edition several original topics have been revisited and practical prediction methods and industrial applications have been added that increase the breadth of its appeal to both academics and practising engineers. New chapters have also been added on numerical modeling in both low finite element and high frequency Transfer Matrix Method. Collating must have information for engineers working in sound and vibration. *Propagation of Sound in Porous Media* 2nd edition offers an indisputable reference to a diverse audience including graduate students and academics in mechanical, civil, engineering, acoustics and noise control as well as practising mechanical, chemical and materials engineers in the automotive, rail, aerospace, building and civil industries. **Basic of sound and hearing: Part 2 sound propagation** prof. Ibrahim elnoshokaty, *Sound Propagation* Sound propagates through air as a longitudinal wave. The speed of sound is determined by the properties of the air and not by the frequency or amplitude of the sound. Sound waves as well as most other types of waves can be described in terms of the following basic wave phenomena. Acoustics in Moving Inhomogeneous Media Vladimir E. Ostashev, D. Keith Wilson, 2015-09-18. Introduces Systematic Formulations for Use in Acoustic Applications. *Acoustics in Moving Inhomogeneous Media* Second Edition offers a uniquely complete and rigorous study of sound propagation and scattering in moving media with deterministic and random inhomogeneities. This study is of great importance in many fields including atmospheric and oceanic. Sound Propagation Yang-Hann Kim, 2010-08-13. In *Sound Propagation: An Impedance Based Approach* Professor Yang Hann Kim introduces acoustics and sound fields by using the concept of impedance. Kim starts with vibrations and waves demonstrating how vibration can be envisaged as a kind of wave mathematically and physically. One dimensional waves are used to convey the fundamental concepts. Readers can then understand wave propagation in terms of characteristic and driving point impedance. The essential measures for acoustic waves such as dB scale, octave scale, acoustic pressure, energy and intensity are explained. These measures are all realized by one dimensional examples which provide

mathematically simplest but clear enough physical insights Kim then moves on to explaining waves on a flat surface of discontinuity demonstrating how propagation characteristics of waves change in space when there is a distributed impedance mismatch Next is a chapter on radiation scattering and diffraction where Kim shows how these topics can be explained in a unified way by seeing the changes of waves due to spatially distributed impedance Lastly Kim covers sound in closed space which is considered to be a space that is surrounded by spatially distributed impedance and introduces two spaces acoustically large and small space The bulk of the book is concerned with introducing core fundamental concepts but the appendices are included as the essentials as well to cover other important topics to extend learning Offers a less mathematically intensive means to understand the subject matter Provides an excellent launching point for more advanced study or for review of the basics Based on classroom tested materials developed over the course of two decades Companion site for readers containing animations and MATLAB code downloads Videos and impedance data available from the author s website Presentation slides available for instructor use Sound Propagation is geared towards graduate students and advanced undergraduates in acoustics audio engineering and noise control engineering Practicing engineers and researchers in audio engineering and noise control or students in engineering and physics disciplines who want to gain an understanding of sound and vibration concepts will also find the book to be a helpful resource

Sound Propagation in the Sea Robert J. Urick, 1979 PARTIAL CONTENTS CHAPTER 1 HISTORICAL REVIEW AND METHODS OF INVESTIGATION CHAPTER 2 SOME BASIC THEORY CHAPTER 3 VELOCITY OF SOUND IN THE SEA CHAPTER 4 ATTENUATION AND ABSORPTION CHAPTER 5 THE SURFACE DUCT CHAPTER 6 THE DEEP SOUND CHANNEL CHAPTER 7 CAUSTICS AND CONVERGENCE ZONES CHAPTER 8 SHALLOW WATER DUCTS CHAPTER 9 REFLECTION AND SCATTERING BY THE SEA SURFACE CHAPTER 10 REFLECTION AND SCATTERING BY THE SEA BOTTOM CHAPTER 11 TEMPORAL COHERENCE FLUCTUATION CHAPTER 12 SPATIAL COHERENCE CORRELATION CHAPTER 13 and MULTIPATHS IN THE SEA

Monograph on Propagation of Sound Waves in Curved Ducts Wojciech Rostafinski, 1991 Fundamentals of Ocean Acoustics L. Brekhovskikh, Y. Lysanov, 2013-03-14 The continents of our planet have already been exploited to a great extent Therefore man is turning his sight to the vast spaciousness of the ocean whose resources mineral biological energetic and others are just beginning to be used The ocean is being intensively studied Our notions about the dynamics of ocean waters and their role in forming the Earth s climate as well as about the structure of the ocean bottom have substantially changed during the last two decades An outstanding part in this accelerated exploration of the ocean is played by ocean acoustics Only sound waves can propagate in water over large distances Practically all kinds of telemetry communication location and remote sensing of water masses and the ocean bottom use sound waves Propagating over thousands of kilometers in the ocean they bring information on earthquakes eruptions of volcanoes and distant storms Projects using acoustical tomography systems for exploration of the ocean are presently being developed Each of these systems will allow us to determine the

three dimensional structure of water masses in regions as large as millions of square kilometers

Sound Propagation in Stratified Fluids Calvin H. Wilcox, 2012-12-06 Stratified fluids whose densities, sound speeds and other parameters are functions of a single depth coordinate occur widely in nature. Indeed, the Earth's gravitational field imposes a stratification on its atmosphere, oceans and lakes. It is well known that this stratification has a profound effect on the propagation of sound in these fluids. The most striking effect is probably the occurrence of acoustic ducts due to minima of the sound speed that can trap sound waves and cause them to propagate horizontally. The reflection, transmission and distortion of sonar signals by acoustic ducts is important in interpreting sonar echoes. Signal scattering by layers of microscopic marine organisms is important to both sonar engineers and marine biologists. Again, reflection of signals from bottom sediment layers overlying a penetrable bottom are of interest both as sources of unwanted echoes and in the acoustic probing of such layers. Many other examples could be given. The purpose of this monograph is to develop from first principles a theory of sound propagation in stratified fluids whose densities and sound speeds are essentially arbitrary functions of the depth. In physical terms, the propagation of both time harmonic and transient fields is analyzed. The corresponding mathematical model leads to the study of boundary value problems for a scalar wave equation whose coefficients contain the prescribed density and sound speed functions.

Modeling of Sound Propagation in the Sea Aleksandr Nikolaevich Barkhatov, 1971 The book is concerned with the application of modeling techniques and procedures to the investigation of sound propagation in the sea. The modeling method affords a means for studying the laws governing the sound fields in the sea and in other similar media under controlled laboratory conditions and can be used in underwater acoustics as a corollary to field experiments. The method has a number of advantages, principal of which are the relative simplicity and low cost of model tests by comparison with full scale tests under oceanic conditions, the high accuracy of acoustical measurements, excellent reproducibility of the measurement results and the capability of rapidly varying the experimental conditions which, unlike the conditions of field experiments, are under complete control. For the modeling of sound propagation in the sea, the latter is treated depending on the problem to be solved, either as a volume homogeneous medium or as a medium possessing regular and randomly distributed inhomogeneities. We direct our primary attention in the book to the modeling of layered inhomogeneous media, but we also discuss separate problems bearing on the study of sound propagation in the sea. It is demonstrated in examples how modeling is employed to investigate the sound field in the ocean for certain typical vertical distributions of the velocity of sound in the ocean.

Sound Propagation through the Stochastic Ocean John A. Colosi, 2016-06-20 In this book, key discoveries in the field of statistical ocean acoustics over the last 35 years are addressed with illustrations from ocean observations.

Ocean Acoustics Anatoly Kistovich, Konstantin Pokazeev, Tatiana Chaplina, 2020-01-03 This book presents a comprehensive overview of hydroacoustics and describes the physical basis of acoustic processes observed in the sea. In addition, it discusses the basic concepts and provides simplified models of sound propagation and acoustic phenomena at the

boundary between environments Lastly the book examines in detail a number of applications of ocean acoustics and methods The ocean is the last reserve of natural resources It is also an essential element in the biosphere ensuring the latter's balance and plays a pivotal role in the Earth's climate system and global warming Consequently studying the ocean is one of humankind's most critical scientific tasks but penetrating its mysteries is no mean feat Acoustics hydroacoustics is one of the most powerful tools for examining the water layer and beyond since sound waves are the only type of radiation that can propagate over distances of hundreds and even thousands of kilometers in the ocean This unique resource appeals to specialists working in the fields of ocean and atmosphere physics students and postgraduate students studying sea physics and oceanology and anyone who is interested in the problems the ocean is currently facing

Modeling of Sound

Propagation in the Sea A. N. Barkhatov, 2013-05-14 The book is concerned with the application of modeling techniques and procedures to the investigation of sound propagation in the sea The modeling method affords a means for studying the laws governing the sound fields in the sea and in other similar media under controlled laboratory conditions and can be used in underwater acoustics as a corroboration to field experiments The method has a number of advantages principal of which are the relative simplicity and low cost of model tests by comparison with full scale tests under oceanic conditions the high accuracy of acoustical measurements excellent reproducibility of the measurement results and the capability of rapidly varying the experimental conditions which unlike the conditions of field experiments are under complete control For the modeling of sound propagation in the sea the latter is treated depending on the problem to be solved either as a volume homogeneous medium or as a medium possessing regular and randomly distributed inhomogeneities We direct our primary attention in the book to the modeling of layered inhomogeneous media but we also discuss separate problems bearing on the study of sound propagation in the sea It is demonstrated in examples how modeling is employed to investigate the sound field in the ocean for certain typical vertical distributions of the velocity of sound in the ocean

Ocean Acoustics J.A. DeSanto, 2013-11-11

This Topics volume is devoted to a study of sound propagation in the ocean The effect of the interior of the ocean on underwater sound is analogous to the effect of a lens on light The oceanic lens is related as in light propagation to the index of refraction of the medium The latter is given by the ratio of the sound frequency to the speed of sound in water typically about 1500 m/s It is the variation of the sound speed due to changing temperature density salinity and pressure in the complex ocean environment which creates the lens effect Many oceanic processes such as currents tides eddies circulating translating regions of water and internal waves the wave like structure of the oceanic density variability contribute in turn to the changes in sound speed The net effect of the ocean lens is to trap and guide sound waves in a channel created by the lens The trapped sound can then propagate thousands of miles in this oceanic waveguide In addition to the propagation in the interior of the ocean sound can propagate into and back out of the ocean bottom as well as scatter from the ocean surface Just as the sound produced by a loudspeaker in a room is affected by the walls of the room so the ocean boundaries and the

material properties below the ocean bottom are essential ingredients in the problem

Research on Sound Propagation in Sound-absorbent Ducts with Superimposed Air Streams F. Mechel, W. Schilz, 1962 It is shown that the attenuation of sound in absorbing ducts with superimposed flow is dependent in a high degree on the direction of the flow and its velocity The change of attenuation is caused by a convective variation of the acoustic wavelength by a nonlinear variation of the characteristic constants of the absorber and by a deformation of the wave fronts in the profile of the mean flow These changes can be calculated and are in good agreement with the experimental results In a duct coated with undamped Helmholtz resonators the mechanism of sound amplification is based on the interaction between the sound wave and the turbulence The conversion of kinetic flow energy into acoustic energy is performed by synchronization of turbulence For appropriate values for flow velocity and signal frequency a long range stable wave of pseudo sound takes place Sound and pseudo sound interact with one another at the necks of the resonators

Propagation of Sound in Porous Media J.F. Allard, 2012-01-07 This book has grown out of the research activities of the author in the fields of sound propagation in porous media and modelling of acoustic materials It is assumed that the reader has a background of advanced calculus including an introduction to differential equations complex variables and matrix algebra A prior exposure to theory of elasticity would be advantageous Chapters 1 3 deal with sound propagation of plane waves in solids and fluids and the topics of acoustic impedance and reflection coefficient are given a large emphasis The topic of flow resistivity is presented in Chapter 2 Chapter 4 deals with sound propagation in porous materials having cylindrical pores The topics of effective density and of tortuosity are presented The thermal exchanges between the frame and the fluid and the behaviour of the bulk modulus of the fluid are described in this simple context Chapter 5 is concerned with sound propagation in other porous materials and the recent notions of characteristic dimensions which describe thermal exchanges and the viscous forces at high frequencies are introduced In Chapter 6 the case of porous media having an elastic frame is considered in the context of Biot theory where new topics described in Chapter 5 have been included

Sound Propagation According to Kinetic Models James Thurber, Lawrence Sirovich, 2015-08-13 This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it This work was reproduced from the original artifact and remains as true to the original work as possible Therefore you will see the original copyright references library stamps as most of these works have been housed in our most important libraries around the world and other notations in the work This work is in the public domain in the United States of America and possibly other nations Within the United States you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work As a reproduction of a historical artifact this work may contain missing or blurred pages poor pictures errant marks etc Scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public We appreciate your support of the preservation process and thank you for being an important part of keeping this knowledge

alive and relevant **On the Propagation of Sound in the Free Atmosphere and the Acoustic Efficiency of Fog-signal Machinery: an Account of Experiments Carried Out at Father Point, Quebec, September, 1913** Louis Vessot King, 1919 Sound Propagation According to Kinetic Models Lawrence Sirovich, 2017-11-10 Excerpt from Sound Propagation According to Kinetic Models Aec Research and Development Report August 15 1961 In spite of the approximate nature of the model equations actual results from the dispersion relation are difficult to obtain except for small wave numbers However the dispersion relation does appear in closed form Although the dispersion relations are amenable to numerical calculation only a few calculations were made A report now in progress will contain an extensive numerical study of the dispersion relations The few calculations do show the possibility of a maximum phase speed it is implied by the single relaxation model This will not be explored but must await the future numerical work About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books Find more at www.forgottenbooks.com This book is a reproduction of an important historical work Forgotten Books uses state of the art technology to digitally reconstruct the work preserving the original format whilst repairing imperfections present in the aged copy In rare cases an imperfection in the original such as a blemish or missing page may be replicated in our edition We do however repair the vast majority of imperfections successfully any imperfections that remain are intentionally left to preserve the state of such historical works *Sound Propagation Via Narrow Beam Audio Projection* Felipe Andres Farias Alvarez, 2018 The parametric acoustic array is a nonlinear phenomenon of physics theoretically described over fifty years ago It consists in the generation of secondary sound waves by the propagation of two collimated primary ultrasonic waves at a close frequency The sound wave generated corresponds to the difference of the frequencies propagated and its existence is independent from the ultrasonic waves but it maintains the high directivity of the primary waves According to Berklay's far field solution one of the main equations describing this phenomenon the sound wave produced is proportional to the second derivative of the envelope of the original ultrasonic wave Hence the implementation of the parametric acoustic array is based on the modulation of signals to be transmitted as ultrasound but demodulated in the propagation medium Due to the nonlinear nature of the phenomenon and the use of modulation techniques in the implementation of the parametric acoustic array harmonic distortion is generated Moreover the models describing the parametric acoustic array are based on many approximations so the results from the equations are inaccurate in many cases Despite Westervelt introduced the theory over five decades ago the research on parametric acoustic arrays presents many challenges in the present day The majority of the efforts for increasing the quality of the demodulated signal have been focused on improving the modulation stage of the parametric acoustic array based on Berklay's solution Furthermore recent advances in the field of parametric acoustic arrays have demonstrated the frequency response of transducers has a big impact on the generation of secondary sound waves This thesis aims to provide a model capable of improving the representation of the parametric acoustic array For this reason simulations using the KZK Texas

code a time domain algorithm which calculates the Khokhlov Zabolotskaya Kuznetsov KZK equation were carried out to replicate the parametric acoustic array in air. These results establish how the diffraction term of the KZK equation impacts on the generation of the secondary sound waves. As a result a Burgers like equation was used instead of the KZK equation decreasing the computation time significantly. In addition parametric loudspeakers were simulated using k Wave a toolbox capable of computing linear and nonlinear propagation of acoustic waves. The results show the effects of Rayleigh distance and absorption length on the demodulated waves. Increasing the Rayleigh distance beyond the absorption length was proposed to obtain a demodulated wave 10 dB higher in the far field if compared to the cases where this condition is not met. Finally an electroacoustic model describing the frequency response of the transducer generating the parametric acoustic array was developed in order to include it into the far field solution. This model is based on a Van Dyke equivalent circuit capable of representing the frequency response of the array of piezoelectric transducers. The transfer function of the circuit was applied as a filter for the original signal and as per the definition of the far field solution the elements of the circuit become part of the demodulated wave. The model and the method used are based on mathematical development simulations and experimental validation.

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
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