



Ocean Acoustics

J. Michael McKisic

Ocean Acoustics:

Computational Ocean Acoustics Finn B. Jensen, William A. Kuperman, Michael B. Porter, Henrik Schmidt, 2011-06-10
Senior level graduate level text reference presenting state of the art numerical techniques to solve the wave equation in heterogeneous fluid solid media Numerical models have become standard research tools in acoustic laboratories and thus computational acoustics is becoming an increasingly important branch of ocean acoustic science The first edition of this successful book written by the recognized leaders of the field was the first to present a comprehensive and modern introduction to computational ocean acoustics accessible to students This revision with 100 additional pages completely updates the material in the first edition and includes new models based on current research It includes problems and solutions in every chapter making the book more useful in teaching the first edition had a separate solutions manual The book is intended for graduate and advanced undergraduate students of acoustics geology and geophysics applied mathematics ocean engineering or as a reference in computational methods courses as well as professionals in these fields particularly those working in government especially Navy and industry labs engaged in the development or use of propagating models

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 Propagation 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

Understanding Ocean Acoustics Jens M. Hovem, Hefeng Dong, 2023-10-17
Underwater acoustics is important in all underwater sonar systems for object detection classification surveillance and for communications links for military and civilian purposes Sound is also a major tool for studying the ocean environment and the interaction of sound and marine life in general Understanding Ocean Acoustics emphasises such applications and issues relevant to studies of the ocean environment and aquatic life Its focus is therefore environmental research and development using low frequencies relevant to fish and sea mammals For such frequencies the geoacoustic properties of the bottom cannot be ignored which requires knowledge about waves in solids which is missing in most books on underwater acoustics

Sounds in the Sea Herman Medwin, 2005-07-21 Publisher Description Ocean Acoustics Ivan Tolstoy, Clarence Samuel

Clay,1966 *Fundamentals of Ocean Acoustics* Leonid M. Brekhovskikh,Yury P. Lysanov,2013-06-29 As man turns his attention from the overcrowded continents of this planet and explores the spaciousness of the ocean the applications of ocean acoustics become increasingly numerous and important This book provides an up to date introduction to the theory of sound propagation in the ocean with much new material having been added throughout the second edition It includes both ray and wave treatments and considerable attention is paid to stochastic problems such as the scattering of sound at rough surfaces and random inhomogeneities An introductory chapter that discusses the basic experimental data complements the following theoretical chapters *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 **Ocean Acoustics Program** J. Michael McKisic,1981 **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 *High Frequency Ocean Acoustics* Michael B. Porter,Martin Siderius,William A. Kuperman,2004-12-07 All papers were peer reviewed Sound in the ocean is as fundamental as light in

theatmosphere The high frequency acoustic band has been little studied in the past however new applications such as mine hunting marine mammal tracking and communications the undersea internet have generated tremendous interest These peer reviewed proceedings include 8 invited papers by leading experts in particular areas and collectively survey all aspects of current research in high frequency acoustics

Bottom-Interacting Ocean Acoustics William A. Kuperman,2013-03-13 vi

These categories seem to represent the basic breakdown by field of present day research in this area Though each paper has been classified into one of these categories for conference organization purpose many papers overlapped two or three areas It is also interesting to note that not only are scientific results being communicated but the latest techniques and the state of the art tools of the trade existing and in development are also being presented The forty six papers presented at this conference represent the work of seventy scientists working at universities government laboratories and industrial laboratories in seven different countries We would like to thank the contributors for their efforts and especially for their promptness in providing the editors with their final manuscripts William A Kuperman Finn B Jensen La Spezia Italy July 1980

CONTENTS GEOACOUSTIC PROPERTIES OF MARINE SEDIMENTS Attenuation of Sound in Marine Sediments 1 J M Hovem Directivity and Radiation Impedance of a Transducer 15 Embedded in a Lossy Medium G H Ziehm Elastic Properties Related to Depth of Burial Strontium Content and Age and Diagenetic Stage in Pelagic Carbonate Sediments 41 M H Manghnani S O Schianger and P D Milholland Application of Geophysical Methods and Equipment to Explore the Sea Bottom 53 H F Weichert The Acoustic Response of Some Gas Charged Sediments in the Northern Adriatic Sea 73 A

Ocean

Seismo-Acoustics T. Akal,J.M. Berkson,2013-03-09 Seafloor investigation has long been a feature of not only seismology but also of acoustics Indeed it was acoustics that produced depth sounders giving us the first capability of producing both global and local maps of the seafloor Subsequently better instrumentation and techniques led to a clearer more quantitative picture of the seabed itself which stimulated new hypotheses such as seafloor spreading through the availability of more reliable data on sediment thickness over ocean basins and other bottom features Geologists and geophysicists have used both acoustic and seismic methods to study the seabed by considering the propagation of signals arising from both natural seismic events and man made impulsive sources Although significant advances have been made in instrumentation such as long towed

geophysical arrays ai r guns and ocean bot tom seismometers the pic ture of the seafloor is still far from complete

Underwater acoustics concerns itself today with the phenomena of propagation and noise at frequencies and ranges that require an understanding of acoustic interaction at both of its boundaries the sea surface and seafloor over depths ranging from tens to thousands of meters Much of the earlier higher frequency 1 kHz work included the characterization of the seafloor in regimes of reflection coefficients which were empirically derived from surveys The results of these studies met with only limited success confined as they were to those areas where survey data existed and lacking a physical understanding of the processes of reflection and scattering

Underwater Acoustic Modeling and Simulation Paul C.

Etter,2018-04-06 This newest edition adds new material to all chapters especially in mathematical propagation models and special applications and inverse techniques It has updated environmental acoustic data in companion tables and core summary tables with the latest underwater acoustic propagation noise reverberation and sonar performance models

Additionally **Acoustic Signal Processing for Ocean Exploration** J.M.F Moura,Isabel M.G. Lourtie,2012-12-06 Acoustic Signal Processing for Ocean Exploration has two major goals i to present signal processing algorithms that take into account the models of acoustic propagation in the ocean and ii to give a perspective of the broad set of techniques problems and applications arising in ocean exploration The book discusses related issues and problems focused in model based acoustic signal processing methods Besides addressing the problem of the propagation of acoustics in the ocean it presents relevant acoustic signal processing methods like matched field processing array processing and localization and detection techniques These more traditional contexts are herein enlarged to include imaging and mapping and new signal representation models like time frequency and wavelet transforms Several applied aspects of these topics such as the application of acoustics to fisheries sea floor swath mapping by swath bathymetry and side scan sonar autonomous underwater vehicles and communications in underwater are also considered *Underwater Acoustics and Ocean Dynamics* Lisheng Zhou,Wen Xu,Qianliu Cheng,Hangfang Zhao,2016-10-17 These proceedings are a collection of 16 selected scientific papers and reviews by distinguished international experts that were presented at the 4th Pacific Rim Underwater Acoustics Conference PRUAC held in Hangzhou China in October 2013 The topics discussed at the conference include internal wave observation and prediction environmental uncertainty and coupling to sound propagation environmental noise and ocean dynamics dynamic modeling in acoustic fields acoustic tomography and ocean parameter estimation time reversal and matched field processing underwater acoustic localization and communication as well as measurement instrumentations and platforms These proceedings provide insights into the latest developments in underwater acoustics promoting the exchange of ideas for the benefit of future research *An Introduction to Underwater Acoustics* Xavier Lurton,2002 Presented in a clear and concise way as an introductory text and practical handbook the book provides the basic physical phenomena governing underwater acoustical waves propagation reflection target backscattering and noise It covers the general features of sonar systems transducers and arrays signal processing and performance evaluation It provides an overview of today s applications presenting the working principles of the various systems From the reviews Presented in a clear and concise way as an introductory text and practical handbook the book provides the basic physical phenomena governing underwater acoustical waves propagation reflection target backscattering and noise It provides an overview of today s applications presenting the working principles of the various systems Oceanis Vol 27 3 4 2003 This book is a general survey of Underwater Acoustics intended to make the subject as easily accessible as possible with a clear emphasis on applications In this the author has succeeded with a wide variety of subjects presented with minimal derivation There is an emphasis on technology and on

intuitive physical explanation Darrell R Jackson Journal of the Acoustic Society of America Vol 115 2 February 2004 This is an exciting new scientific publication It is timely and welcome Furthermore it is up to date and readable It is well researched excellently published and ranks with earlier books in this discipline Many persons in the marine science field including acousticians hydrographers oceanographers fisheries scientists engineers educators students and equipment manufacturers will benefit greatly by reading all or part of this text The author is to be congratulated on his fine contribution Stephen B MacPhee International Hydrographic Review Vol 4 2 2003

Underwater Acoustic Modelling and Simulation P.C.

Etter,2003-12-08 Underwater Acoustic Modeling and Simulation examines the translation of our physical understanding of sound in the sea into mathematical models that can simulate acoustic propagation noise and reverberation in the ocean These models are used in a variety of research and operational applications to predict and diagnose the performance of complex s

Advances in Ocean Acoustics Ji-Xun Zhou,Zhenglin Li,Jeffrey Simmen,2012-12-17 Undersea acoustic applications to detect communicate navigate monitor and measure within the ocean are dependent upon a good physical understanding of sound production propagation and scattering in the ocean environment This proceedings volume provides interesting new research results in ocean acoustics and includes two to three decade reviews of progress in different topics in ocean acoustics including computational acoustics shallow water acoustics seafloor and sediment acoustics boundary scattering and reverberation ocean ambient noise geoacoustic inversion marine bioacoustics arctic acoustics signal processing underwater acoustic communication and underwater sound projectors

Underwater Acoustic Modeling and

Simulation, Fourth Edition Paul C. Etter,2013-02-21 Underwater Acoustic Modeling and Simulation Fourth Edition continues to provide the most authoritative overview of currently available propagation noise reverberation and sonar performance models This fourth edition of a bestseller discusses the fundamental processes involved in simulating the performance of underwater acoustic systems and emphasizes the importance of applying the proper modeling resources to simulate the behavior of sound in virtual ocean environments New to the Fourth Edition Extensive new material that addresses recent advances in inverse techniques and marine mammal protection Problem sets in each chapter Updated and expanded inventories of available models Designed for readers with an understanding of underwater acoustics but who are unfamiliar with the various aspects of modeling the book includes sufficient mathematical derivations to demonstrate model formulations and provides guidelines for selecting and using the models Examples of each type of model illustrate model formulations model assumptions and algorithm efficiency Simulation case studies are also included to demonstrate practical applications Providing a thorough source of information on modeling resources this book examines the translation of our physical understanding of sound in the sea into mathematical models that simulate acoustic propagation noise and reverberation in the ocean The text shows how these models are used to predict and diagnose the performance of complex sonar systems operating in the undersea environment

Fundamentals of Ocean Acoustics L. M. Brekhovskikh,Yu. P.

Lysanov,2014-01-15

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