

Shallow-Water Acoustics

Boris G. Katsnelson
and
Valery G. Petnikov



Springer

PRAXIS

Shallow Water Acoustics

John Brackett Hersey



Shallow Water Acoustics:

Fundamentals of Shallow Water Acoustics Boris Katsnelson, Valery Petnikov, James Lynch, 2012-02-22 Shallow water acoustics SWA the study of how low and medium frequency sound propagates and scatters on the continental shelves of the world's oceans has both technical interest and a large number of practical applications Technically shallow water poses an interesting medium for the study of acoustic scattering inverse theory and propagation physics in a complicated oceanic waveguide Practically shallow water acoustics has interest for geophysical exploration marine mammal studies and naval applications Additionally one notes the very interdisciplinary nature of shallow water acoustics including acoustical physics physical oceanography marine geology and marine biology In this specialized volume the authors all of whom have extensive at sea experience in US and Russian research efforts have tried to summarize the main experimental theoretical and computational results in shallow water acoustics with an emphasis on providing physical insight into the topics presented

Futures in Shallow-water Acoustics John Brackett Hersey, 1987 **Shallow Water Acoustics** Boris G. Katsnelson, Valery G. Petnikov, 2002-05-01 The objective of this book is to present the main theoretical approaches and models in shallow water acoustics as well as different experimental results The focus is primarily concentrated on physical results describing the sound field in wave length The authors show dynamic phenomena tides internal waves from the perspective of acoustic influence as well as the scattering of sound over the macroscopic body in shallow water waveguide The method of acoustic probing can be used by physicists geophysicists geologists and oceanographers **Some Perspectives and Recent**

Findings in Shallow Water Acoustics Robert Joseph Urick, 1971 **Shallow-water Acoustics** Renhe Zhang, 1997

Shallow-water Acoustics James F. Lynch, 1997 **Oceanographic Variability in Shallow-Water Acoustics and the Dual Role of the Sea Bottom**, 1993 Acoustic propagation in shallow water is an area of major concern to the Navy The difficulties associated with the use of acoustics in the ocean however are aggravated in shallow water Multipath propagation and extensive boundary interactions especially with the sea bottom conspire along with a host of other phenomena to produce a highly variable and often unpredictable acoustic field The responsible mechanisms and hence the acoustic effects cover a wide range of temporal and spatial scales The mechanisms are classified as either deterministic or random although the two types often act in concert The sea bottom plays a dual role in shallow water acoustics Because of extensive interactions with the sound field the bottom can severely degrade waterborne propagation On the other hand the sea bottom and subbottom can provide a seismic path that not only is relatively stable but exists even under environmental conditions that preclude an effective waterborne path Propagation in the bottom is particularly significant at very low frequencies often being more efficient than high frequency waterborne propagation The preceding aspects of shallow water acoustics viz variability and dual role of the sea bottom are illustrated using the results of experiments conducted in diverse geographic areas by the Naval Research Laboratory SSC and by the SACLANT Undersea Research Centre Seismic waves Scholte waves

Seismic arrays *Shallow Water Acoustics* Jeffrey Simmen, Ellen S. Livingston, Ji-Xun Zhou, Feng-Hua Li, 2010-10-04

Undersea acoustic applications in shallow water to detect communicate navigate monitor and measure are dependent upon a good physical understanding of sound propagation and scattering in this highly dynamic and inhomogeneous waveguide. Achieving such an understanding requires an interdisciplinary approach encompassing acoustics physical oceanography marine geophysics marine biology ocean engineering and signal processing as well as the underlying physics and mathematics of the integrated theory **Acoustic Sensing Techniques for the Shallow Water Environment** Andrea Caiti, N. Ross Chapman, Jean-Pierre Hermand, Sérgio M. Jesus, 2006-09-21

This volume contains the collection of papers from the second workshop on Experimental Acoustic Inversion Techniques for Exploration of the Shallow Water Environment. Acoustic techniques provide the most effective means for remote sensing of ocean and sea floor processes and for probing the structure beneath the sea floor. No other energy propagates as efficiently in the ocean: radio waves and visible light are severely limited in range because the ocean is a highly conductive medium. However, sound from breaking waves and coastal shipping can be heard throughout the ocean, and marine mammals communicate acoustically over basin-scale distances. The papers in this book indicate a high level of research interest that has generated significant progress in development and application of experimental acoustic inversion techniques. The applications span a broad scope in geosciences from geophysical biological and even geochemical research. The list includes estimation of geotechnical properties of sea bed materials navigation and mapping of the sea floor fisheries aquaculture and sea bed habitat assessment monitoring of marine mammals sediment transport and investigation of natural geohazards in marine sediments.

Audience: This book is primarily intended for physicists and engineers working in underwater acoustics and oceanic engineering. It will also be of interest to marine biologists geophysicists and oceanographers as potential users of the methodologies and techniques described in the book.

contributions *Shallow Water Acoustics* Naval Research Laboratory (U.S.). Applied Ocean Acoustics Branch, 1978

Enjoying the Tune of Term: An Psychological Symphony within **Shallow Water Acoustics**

In a global used by monitors and the ceaseless chatter of quick interaction, the melodic beauty and psychological symphony created by the published word often diminish into the backdrop, eclipsed by the constant sound and interruptions that permeate our lives. But, situated within the pages of **Shallow Water Acoustics** a charming fictional treasure filled with raw emotions, lies an immersive symphony waiting to be embraced. Crafted by a wonderful composer of language, this captivating masterpiece conducts viewers on a mental trip, skillfully unraveling the hidden melodies and profound impact resonating within each cautiously crafted phrase. Within the depths with this emotional analysis, we will investigate the book is main harmonies, analyze its enthralling writing style, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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