

The Underwater Acoustics Series

William M. Carey  
Richard B. Evans

# Ocean Ambient Noise

Measurement and Theory



 Springer

# Ocean Ambient Noise Measurement And Theory The Underwater Acoustics Series

**L Towne**



## **Ocean Ambient Noise Measurement And Theory The Underwater Acoustics Series:**

Ocean Ambient Noise William M. Carey, Richard B. Evans, 2011-03-23 This monograph develops the theory of noise mechanisms and measurements and describes general noise characteristics and computational methods The vast ambient noise literature is concisely summarized using theory combined with key representative results The air sea boundary interaction zone is described in terms of nondimensional variables requisite for future experiments Noise field coherency rare directional measurements and unique basin scale computations and methods are presented The use of satellite measurements in these basin scale models is demonstrated A series of appendices provides in depth mathematical treatments which will be of interest to graduate students and active researchers Ambient Noise in the Sea Robert J. Urick, 1986 Ambient noise may be loosely said to be unwanted sound emanating from the sea itself Its constituents typically come from a variety of somewhat diffusely combined sources pressure changes and hydrostatic effects of tides and waves oceanic turbulence seismic disturbances distant ship traffic wind rainfall collapse of bubbles created by wave action thermal agitation marine animals and biological activity breaking ice and man made noise such as distant oil rigs Depending on locations in the ocean space the times of day season and year and the happenstance of events and nature the aforementioned sources may or may not contribute to the totality of ambient noise at any given time and place and it may or may not exist as broad or narrow bands of energy in different regions of the frequency spectrum More exactly defined ambient noise is that part of the total noise background observed by an omnidirectional hydrophone in the sea which is 1 not due to the hydrophone system's self noise such as the noise of current flow around the measurement hydrophone and all forms of electrical noise ambient noise is independent of the means used to observe it and 2 not due to other identifiable localized sources of noise Ambient noise is what is left over after all identifiable noise sources are accounted for Ambient noise is an especially important consideration in detecting and identifying targets be the targets submarines underwater vehicles floating mines or fish in relatively quiet ocean environments and situations In the case of active sonar ambient noise typically becomes the dominant background against which the sonar receiver is trying to detect and possibly identify targets in the ocean space not addressing search of the ocean floor when it is greater than self noise and after the relatively loud reverberation noise created by the active sonar pings has died down in the sonar cycle In the case of passive sonar after taking into account self noise and possible extraneous noise from identifiable sources ambient noise is the background against which the sonar receiver seeks to detect and identify targets This book AMBIENT NOISE IN THE SEA by Robert Urick summarizes the main features of the ambient noise and gives the reader an easy to read understandable entry in to its unclassified literature This book is a must for engineers in the fields of active and passive sonars underwater sensor and weapons systems and underwater signal processing Ambient Noise in the Sea Robert J. Urick, 1984 *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 Sea Surface Sound B.R.

Kerman,1988-07-31 In its relentless pursuit of further knowledge science tends to compartmentalize Over the years the pursuit of What might be called geophysical acoustics of the sea surface has languished This has occurred even though there are well developed and active research programs in underwater acoustics ocean hydrodynamics cloud and precipitation physics and ice mechanics to name a few as well as a history of engineering expertise built on these scientific fields It remained to create a convergence a dialogue across disciplines of mutual benefit The central theme of the Lerici workshop perhaps overly simplified was What are the mechanisms causing ambient noise at the upper surface of the ocean What could hydrodynamicists contribute to a better understanding of breaking wave dynamics bubble production ocean wave dynamics or near surface turbulence for the benefit of the underwater acoustics community What further insights could fluid dynamicists gain by including acoustic measurements in their repertoire of instrumentation While every attendee will have his or her perceptions of details it was universally agreed that a valuable step had been taken to bring together two mature disciplines and that significant cooperative studies would undoubtedly follow The scope of the workshop was enlarged beyond its original intent to also include the question of ice noise generation The success of this decision can be seen in high quality of the presentations the contribution of its disciples in the other workshop discussions and the heightened awareness and interest of we other novices **Marine Research** ,1969 **Theoretical and Computational Acoustics 2001**

Er-Chang Shang,2002 This book contains 67 papers presented at ICTCA2001 It includes three keynote addresses surveying the frontier developments in computational and theoretical acoustics The papers cover aero seismo and ocean acoustics as well as ultrasonics Computational methods numerical simulation theoretical analysis and experimental results are emphasized by different papers The proceedings have been selected for coverage in Index to Scientific Technical Proceedings ISTP CDROM version ISI Proceedings **Marine Research, Fiscal Year 1968** National Council on Marine Resources and Engineering Development (U.S.),1969 *Theoretical and Applied Mechanics 1996* E. Watanabe,T. Kambe,T.

Tatsumi,1997-04-25 These proceedings present an up to date and comprehensive review of the field of theoretical and applied mechanics All the papers are written by leading experts presently active in this subject area     Natural Physical Sources of Underwater Sound B.R. Kerman,1993-01-31 Proceedings of the Conference on Natural Physical Sources of Underwater Sound Cambridge U K July 3 6 1990     The Acoustic Bubble T Leighton,2012-12-02 The Acoustic Bubble describes the interaction of acoustic fields with bubbles in liquid The book consists of five chapters Chapter 1 provides a basic introduction to acoustics including some of the more esoteric phenomena that can be seen when high frequency high intensity underwater sound is employed Chapter 2 discusses the nucleation of cavitation and basic fluid dynamics while Chapter 3 draws together the acoustics and bubble dynamics to discuss the free oscillation of a bubble and acoustic emissions from such activity The acoustic probes that are often applied to study the behavior of a bubble when an externally applied acoustic field drives it into oscillation is deliberated in Chapter 4 The last chapter outlines a variety of effects associated with acoustically induced bubble activity The bubble detection sonoluminescence sonochemistry and pulse enhancement are also covered This publication is a good reference for physics and engineering students and researchers intending to acquire knowledge of the acoustic interactions of acoustic fields with bubbles     **Theoretical And Computational Acoustics 2001** T F Gao,Qihu Li,Er-chang Shang,2002-07-25 This book contains 67 papers presented at ICTCA2001 It includes three keynote addresses surveying the frontier developments in computational and theoretical acoustics The papers cover aero seismo and ocean acoustics as well as ultrasonics Computational methods numerical simulation theoretical analysis and experimental results are emphasized by different papers The proceedings have been selected for coverage in Index to Scientific Technical Proceedings ISTP CDROM version ISI Proceedings     The Journal of the Acoustical Society of America Acoustical Society of America,2005     **Applied Underwater Acoustics** Thomas Neighbors,David Bradley,2017-01-19 Applied Underwater Acoustics meets the needs of scientists and engineers working in underwater acoustics and graduate students solving problems in and preparing theses on topics in underwater acoustics The book is structured to provide the basis for rapidly assimilating the essential underwater acoustic knowledge base for practical application to daily research and analysis Each chapter of the book is self supporting and focuses on a single topic and its relation to underwater acoustics The chapters start with a brief description of the topic s physical background necessary definitions and a short description of the applications along with a roadmap to the chapter The subtopics covered within individual subchapters include most frequently used equations that describe the topic Equations are not derived rather assumptions behind equations and limitations on the applications of each equation are emphasized Figures tables and illustrations related to the sub topic are presented in an easy to use manner and examples on the use of the equations including appropriate figures and tables are also included Provides a complete and up to date treatment of all major subjects of underwater acoustics Presents chapters written by recognized experts in their individual field Covers the fundamental

knowledge scientists and engineers need to solve problems in underwater acoustics Illuminates in shorter sub chapters the modern applications of underwater acoustics that are described in worked examples Demands no prior knowledge of underwater acoustics and the physical principles and mathematics are designed to be readily understood by scientists engineers and graduate students of underwater acoustics Includes a comprehensive list of literature references for each chapter

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