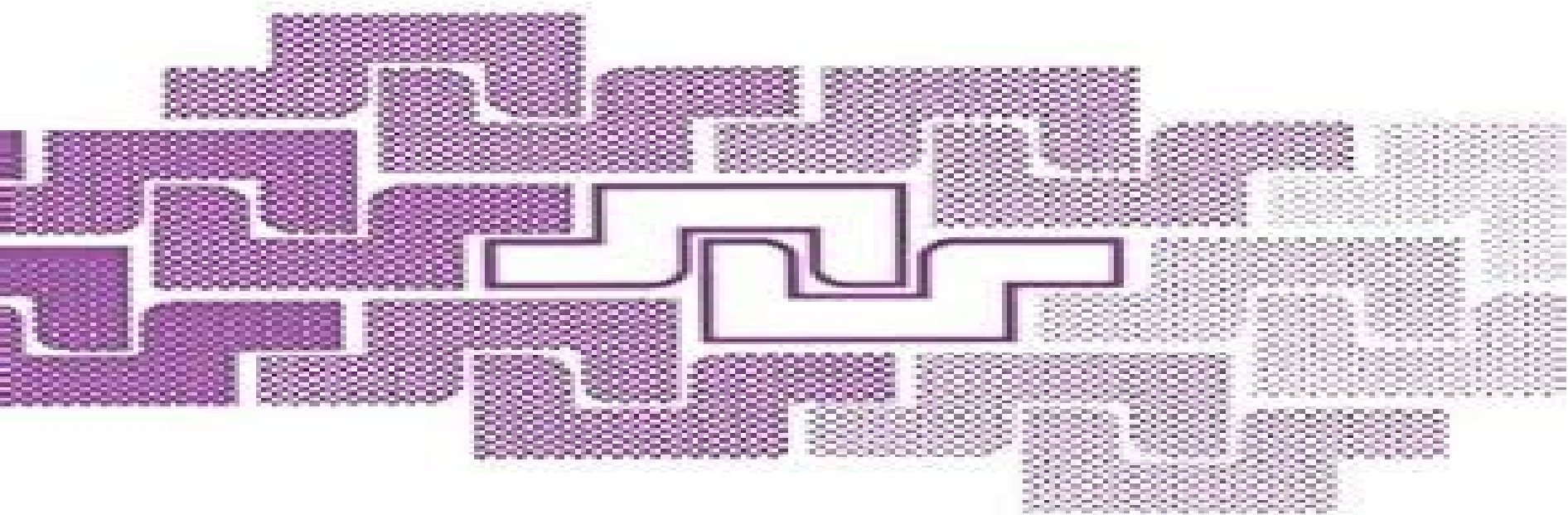




Sea Surface Sound Natural Mechanisms of Surface Generated Noise in the Ocean

Edited by

B. R. Kerman

NATO ASI Series

Sea Surface Sound Natural Mechanisms Of Surface Generated Noise In The Ocean

**Michael L. Banner, Roger H.J.
Grimshaw**



Sea Surface Sound Natural Mechanisms Of Surface Generated Noise In The Ocean:

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

Sea Surface Sound '94 - Proceedings Of The Iii International Meeting On Natural Physical Processes Related To Sea Surface Sound Michael J Buckingham,J R Potter,1996-01-11 Understanding and constructively using natural sound in the ocean has become of prime importance with the shift of emphasis to protecting the environment and exercising responsible global resource management which has followed the end of the Cold War Especially now that we realise that marine mammals and other inhabitants of the oceans are threatened by our acoustic pollution of their environment the use of natural sound as a non intrusive remote sensing probe has become particularly germane This was the first meeting on the subject since the fall of Soviet Western barriers and the proceedings include significant work from premier researchers in the former Soviet Union It was also the first meeting which specifically addressed the new and exciting idea of using natural sound in applications for monitoring the marine environment The proceedings include a number of papers on various aspects of this topic Further new work on the basic physics of sound production and propagation is also included This volume includes leading edge work from the foremost researchers in the field including Bill Carey Lawrence Crum Nikolai Dubrovskii David Farmer Brian Kerman Bill Kuperman Michael Longuet Higgins Hank Medwin Ken Melville A Prosperetti and many others Sea Surface Sound B.R.

Kerman,2012-12-06 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 the 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.

NATO Advanced Research Workshop on Sea Surface Sound, Natural Mechanisms of Surface Generated Noise in the Ocean NATO., OTAN., 1988

Natural Physical Sources of Underwater Sound B.R. Kerman, 2012-12-06

To place this book in perspective, it is useful for the reader to be aware of the recent history of the topic of underwater sound generation at the ocean surface by natural mechanisms. A meeting in Lerici, Italy, in 1987 was convened within the NATO Advanced Research Workshop series to bring together underwater acousticians and ocean hydrodynamicists to examine various mechanisms which generate sound naturally at the ocean surface. A record of that meeting was published in the NATO scientific publication series in 1988 under the title *Sea Surface Sound*. That meeting was successful in inspiring and coordinating both participants and non-attending colleagues to examine some key issues which were raised during the course of presentations and discussions. The understanding among those present was that another meeting should be convened 3 years hence to report and review progress in the subject. Accordingly, the second conference was convened in Cambridge in 1990, whose proceedings are presented here. This volume represents a very gratifying increase in only a 3 year interval in our understanding of a number of physical processes which generate sound at the peripheries of oceans. In fact, it represents both the acceleration of singular effort as well as the development of interdisciplinary sophistication and cooperation. The enthusiasm, goodwill, and intense scientific curiosity which characterized the Lerici meeting carried through to Cambridge. The collegial atmosphere established by the participants was perfectly timed to foster another major advance in studies of ocean surface sound.

Marine Mammal Acoustics in a Noisy Ocean Christine Erbe, Dorian Houser, Ann Bowles, Michael B. Porter, 2025-08-03

This open access book invites its readers to dive into the depths of marine mammal bioacoustics. The ocean is a noisy place naturally as well as anthropogenically. Our book explores the fundamentals of ocean acoustics, revealing the intricate sources of underwater noise that challenge marine life. Readers delve into the unique vocalizations of mysticetes, odontocetes, pinnipeds, otters, and sirenians, uncovering their diverse

communication in stormy waters The book presents research on marine mammal hearing and the impact of noise on their physiology and behavior from the subtle behavioral responses to the broader biological significance of these effects With insights into the management of anthropogenic noise this book equips students researchers environmental managers policy makers conservationists and enthusiasts alike with vital knowledge for protecting our ocean s acoustic environments

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

Breaking Waves Michael L. Banner, Roger H.J. Grimshaw, 2012-12-06 Wave breaking is a commonly occurring phenomena associated with wave motion in fluids often inducing significant effects which are of fundamental and technological importance A familiar illustration is provided with white capping and microbreaking of the wind driven ocean s surface waves which is believed to play an important part in the transfers of momentum mass and heat across the air sea interface as well as in the production of underwater ambient noise and augmented microwave backscatter The enhanced hydrodynamic forces associated with the breaking of the more energetic ocean wave components constitute a significant challenge in ocean engineering coastal engineering and naval architecture Other less conspicuous but equally important manifestations are the breaking of internal waves and the filamentation of vorticity interfaces Despite recent theoretical and observational progress towards a more complete understanding of wave breaking mathematical descriptions of its onset and consequences are presently lacking The aim of this Symposium was to bring together theoretical and observational expertise with the goal of determining the current state of knowledge of wave breaking and providing a stimulus to future research The Symposium focused on water waves of all scales from capillary waves to ocean swell but also considered internal waves and the filamentation of vorticity interfaces Specific topics included were Fundamental theoretical studies wave instabilities routes to breaking Models of wave breaking Field observations including statistical information Laboratory studies Shoaling waves breaking waves on currents breaking induced by the motion of a ship

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 The Shock and Vibration Digest ,1990 Breaking and Dissipation of Ocean Surface Waves Alexander Babanin,2011-05-19 Wave breaking represents one of the most interesting and challenging problems for fluid mechanics and physical oceanography Over the last fifteen years our understanding has undergone a dramatic leap forward and wave breaking has emerged as a process whose physics is clarified and quantified Ocean wave breaking plays the primary role in the air sea exchange of momentum mass and heat and it is of significant importance for ocean remote sensing coastal and ocean engineering navigation and other practical applications This book outlines the state of the art in our understanding of wave breaking and presents the main outstanding problems It is a valuable resource for anyone interested in this topic including researchers modellers forecasters engineers and graduate students in physical oceanography meteorology and ocean engineering **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 Digital Sonar Design in Underwater Acoustics Qihu Li,2012-03-05 Digital Sonar Design in Underwater Acoustics Principles and Applications provides comprehensive and up to date coverage of research on sonar design including the basic

theory and techniques of digital signal processing basic concept of information theory ocean acoustics underwater acoustic signal propagation theory and underwater signal processing theory This book discusses the general design procedure and approaches to implementation the design method system simulation theory and techniques sonar tests in the laboratory lake and sea and practical validation criteria and methods for digital sonar design It is intended for researchers in the fields of underwater signal processing and sonar design and also for navy officers and ocean explorers Qihu Li is a professor at the Institute of Acoustics Chinese Academy of Sciences and an academician of the Chinese Academy of Sciences Wave Interactions As a Seismo-acoustic Source Alick C. Kibblewhite, Cheng Y. Wu, 2006-04-10 This book gives a comprehensive theoretical account of the wave wave interaction process responsible for high acoustic noise levels including a geometric description of the interaction mechanism which provides the basis for a full wave analysis of the source process the inclusion of both the monogeneous and inhomogeneous components of the wave induced pressure field in the analytical description of the source an examination of the relative contributions of the sum and difference frequency components of the wave interaction process the removal of the deep water assumption of earlier analyses and the development of an exact analytical expression which allows the source function of the wave induced pressure field to be calculated over the whole frequency wave number domain *Fundamentals of Acoustical Oceanography* Herman Medwin, Clarence S. Clay, 1997-11-05 The developments in the field of ocean acoustics over recent years make this book an important reference for specialists in acoustics oceanography marine biology and related fields *Fundamentals of Acoustical Oceanography* also encourages a new generation of scientists engineers and entrepreneurs to apply the modern methods of acoustical physics to probe the unknown sea The book is an authoritative modern text with examples and exercises It contains techniques to solve the direct problems solutions of inverse problems and an extensive bibliography from the earliest use of sound in the sea to present references Written by internationally recognized scientists the book provides background to measure ocean parameters and processes find life and objects in the sea communicate underwater and survey the boundaries of the sea *Fundamentals of Acoustical Oceanography* explains principles of underwater sound propagation and describes how both actively probing sonars and passively listening hydrophones can reveal what the eye cannot see over vast ranges of the turbid ocean This book demonstrates how to use acoustical remote sensing variations in sound transmission in situ acoustical measurements and computer and laboratory models to identify the physical and biological parameters and processes in the sea Offers an integrated modern approach to passive and active underwater acoustics Contains many examples of laboratory scale models of ocean acoustic environments as well as descriptions of experiments at sea Covers remote sensing of marine life and the seafloor Includes signal processing of ocean sounds physical and biological noises at sea and inversions resents sound sources receivers and calibration Explains high intensities explosive waves parametric sources cavitation shock waves and streaming Covers microbubbles from breaking waves rainfall dispersion and attenuation Describes sound propagation along

ray paths and caustics Presents sound transmissions and normal mode methods in ocean waveguides Theoretical and Applied Mechanics 1992 S.R. Bodner,J. Singer,A. Solan,Z. Hashin,2012-12-02 Contained in this volume are the full texts of the invited general and sectional lectures presented at this conference concerning mechanics and its development The entire field of mechanics is covered including analytical solid and fluid mechanics and their applications A brilliant survey of work in the fields of fluid and solid mechanics is also given The papers are written by leading experts which is reflected in the quality and diversity of the lectures and posters presented they will provide a valuable key to the latest and most important developments in the various sub fields of mechanics Recent Library Additions ,1988 **Sea Salt Aerosol Production** Ernie R. Lewis,Stephen E. Schwartz,2004-01-09 Published by the American Geophysical Union as part of the Geophysical Monograph Series Volume 152 Sea salt aerosol SSA exerts a major influence over a broad reach of geophysics It is important to the physics and chemistry of the marine atmosphere and to marine geochemistry and biogeochemistry generally It affects visibility remote sensing atmospheric chemistry and air quality Sea salt aerosol particles interact with other atmospheric gaseous and aerosol constituents by acting as sinks for condensable gases and suppressing new particle formation thus influencing the size distribution of these other aerosols and more broadly influencing the geochemical cycles of substances with which they interact As the key aerosol constituent over much of Earth s surface at present and all the more so in pre industrial times SSA is central to description of Earth s aerosol burden **Ocean Engineering Science** Bernard Le Méhauté,Daniel M. Hanes,2005-06-28 **Of Fluid Mechanics and Related Matters** Rick Salmon,Donald B. Betts,1991

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