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Stochastic Processes in Underwater Acoustics

Edited by C. R. Baker



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Stochastic Processes In Underwater Acoustics

John A. Colosi



Stochastic Processes In Underwater Acoustics:

Stochastic Processes in Underwater Acoustics Charles R. Baker, 2014-03-12 **MODELS FOR NONSTATIONARY STOCHASTIC PROCESSES WITH APPLICATIONS TO UNDERWATER ACOUSTICS** P.P. NUSPL, 1971 Models for Nonstationary Stochastic Processes with Applications to Underwater Acoustics P. P. Nuspl, 1971 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 **Underwater Acoustic Modeling and Simulation** Paul C. Etter, 2017-12-19 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 *Underwater Acoustic Channel* Junying Hui, Xueli Sheng, 2022-05-19 This book introduces sonar system and acoustic channel model average energy channel coherent multipath channel the theoretical basis for the stochastic time varying space variant channel slowly time varying coherent multipath channel and reverberation channel Based on the basic theory of underwater acoustic channels and the various characteristics of the marine acoustic environment factor this textbook aims to help students understand the impact of the marine acoustic channel on the sonar

system It helps students to grasp underwater acoustic signal processing principles and obtain the ability to solve practical problems in underwater acoustic channel engineering Finally it aims at laying a foundation for the further sonar system design This textbook is recommended for graduate or undergraduate students in the field of sonar signal processing underwater acoustic engineering as well as some related subjects of marine technology *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

Chinese Journal of Acoustics ,1999 *Sound Propagation through the Stochastic Ocean* John A. Colosi,2016-06-20 The ocean is opaque to electromagnetic radiation and transparent to low frequency sound so acoustical methodologies are an important tool for sensing the undersea world Stochastic sound speed fluctuations in the ocean such as those caused by internal waves result in a progressive randomisation of acoustic signals as they traverse the ocean environment This signal randomisation imposes a limit to the effectiveness of ocean acoustic remote sensing navigation and communication *Sound Propagation through the Stochastic Ocean* provides a comprehensive treatment of developments in the field of statistical ocean acoustics over the last 35 years This will be of fundamental interest to oceanographers marine biologists geophysicists engineers applied mathematicians and physicists Key discoveries in topics such as internal waves ray chaos Feynman path integrals and mode transport theory are addressed with illustrations from ocean observations The topics are presented at an approachable level for advanced students and seasoned researchers alike *Non-Gaussian Stochastic Processes* Patrick L. Brockett,Glen E. Ellis,Melvin Hinich,Frederick W. Machell,Clark S. Perod,TEXAS A AND M UNIV COLLEGE STATION.,1986

The major objectives for this research on non Gaussian signal processing NG SRO were 1 statistical characterization and analyses of classes of non Gaussian stochastic processes for underwater acoustic applications and 2 development and evaluation of new algorithms for signal detection in a non Gaussian ocean acoustic environment Applications of these research efforts were continued under the OSSP program on the development and evaluation of statistical inference procedures for detection of low energy broadband signals in broadband and impulsive noise Signal Processing of Underwater Acoustic Waves C. W. Horton, United States. Naval Ship Systems Command, 1969 **Applied Mechanics Reviews**, 1978 Wave Propagation and Underwater Acoustics J.B. Keller, J.S. Papadakis, 1977-12-01 **IEEE**

International Symposium on Information Theory, 1985 *U.S. Government Research & Development Reports*, 1967

Spatial Modulation in the Underwater Acoustic Communication Channel Daniel B. Kilfoyle, 2000 A modulation technique for increasing the reliable data rate achievable by an underwater acoustic communication system is presented and demonstrated The technique termed spatial modulation seeks to control the spatial distribution of signal energy such that multiple parallel communication channels are supported by the single physical ocean channel Results from several experiments successfully demonstrate higher obtainable data rates and power throughput Given a signal energy constraint a communication architecture with access to parallel channels will have increased capacity and reliability as compared to one with access to a single channel Assuming the use of multiple element spatial arrays at both the transmitter and receiver an analytic framework is developed that allows a multiple input multiple output physical channel to be transformed into a set of virtual parallel channels The continuous time vector singular value decomposition is the primary vehicle for this transformation Given knowledge of the channel impulse responses and assuming additive white Gaussian noise as the only interference the advantages of using spatial modulation over a deterministic channel may be exactly computed Improving performance over an ensemble of channels using spatial modulation is approached by defining and then optimizing various average performance metrics including average signal to noise ratio average signal to noise plus interference ratio and minimum square error Several field experiments were conducted Detailed channel impulse response measurements were made enabling application of the decomposition methodology The number strength and stability of the available parallel channels were analyzed The parallel channels were readily interpreted in terms of the underlying sound propagation field Acoustic communication tests were conducted comparing conventional coherent modulation to spatial modulation In one case a reliable data rate of 24000 bits per second with a 4 kHz bandwidth signal was achieved with spatial modulation when conventional signaling could not achieve that rate In another test the benefits of spatial modulation for a horizontally distributed communication system such as an underwater network with autonomous underwater vehicles were validated

Characteristics of Sea Reverberation Viktor Vladimirovich Ol'shevskii, 1967 **Bibliography of Scientific and Industrial Reports**, 1965-07 **Circular**, 1984 *The Journal of the Acoustical Society of America* Acoustical Society of

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