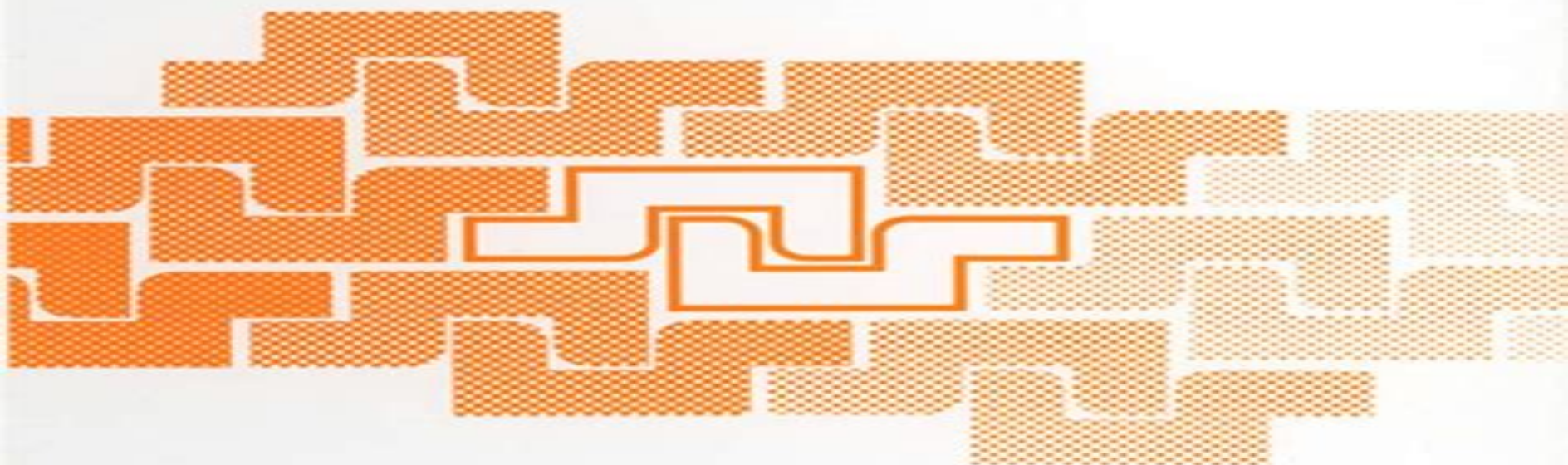




Underwater Acoustic Data Processing

Edited by
Y. T. Chan

NATO ASI Series

Series E: Applied Sciences – Vol. 161

Underwater Acoustic Data Processing Nato Science Series E

Richard E. Thomson, William J. Emery



Underwater Acoustic Data Processing Nato Science Series E:

Underwater Acoustic Data Processing Y. T. Chan, 2012-12-06 This book contains the papers that were accepted for presentation at the 1988 NATO Advanced Study Institute on Underwater Acoustic Data Processing held at the Royal Military College of Canada from 18 to 29 July 1988 Approximately 110 participants from various NATO countries were in attendance during this two week period Their research interests range from underwater acoustics to signal processing and computer science some are renowned scientists and some are recent Ph D graduates The purpose of the ASI was to provide an authoritative summing up of the various research activities related to sonar technology The exposition on each subject began with one or two tutorials prepared by invited lecturers followed by research papers which provided indications of the state of development in that specific area I have broadly classified the papers into three sections under the titles of I Propagation and Noise II Signal Processing and III Post Processing The reader will find in Section I papers on low frequency acoustic sources and effects of the medium on underwater acoustic propagation Problems such as coherence loss due to boundary interaction wavefront distortion and multipath transmission were addressed Besides the medium corrupting noise sources also have a strong influence on the performance of a sonar system and several researchers described methods of modeling these sources

Underwater Acoustic Signal Processing Douglas A. Abraham, 2019-02-14 This book provides comprehensive coverage of the detection and processing of signals in underwater acoustics Background material on active and passive sonar systems underwater acoustics and statistical signal processing makes the book a self contained and valuable resource for graduate students researchers and active practitioners alike Signal detection topics span a range of common signal types including signals of known form such as active sonar or communications signals signals of unknown form including passive sonar and narrowband signals and transient signals such as marine mammal vocalizations This text along with its companion volume on beamforming provides a thorough treatment of underwater acoustic signal processing that speaks to its author s broad experience in the field

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 Modelling and Simulation, Third Edition* 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 sonar systems operating in the undersea environment Previous editions of the book have provided invaluable guidance to sonar technologists acoustical oceanographers and applied mathematicians in the selection and application of underwater acoustic models Now that simulation is fast becoming an accurate efficient and economical alternative to field testing and at sea training this new edition will also provide useful guidance to systems engineers and operations analysts interested in simulating sonar performance Guidelines for selecting and using available propagation noise and reverberation models are highlighted Specific examples of each type of model are discussed to illustrate model formulations assumptions and algorithm efficiency Instructive case studies demonstrate applications in sonar simulation *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 **Underwater Acoustic Modeling** P.C. Etter,1995-11-30 Underwater Acoustic Modeling provides the only comprehensive source on how to translate our physical understanding of sound in the sea into mathematical formulas solvable by computers **Underwater Acoustic Data Processing** Y T Chan,1989 **The Shock and Vibration Digest** ,1990 Acoustic Signal Processing for Ocean Exploration J.M.F Moura,Isabel M.G. Lourtie,2012-12-06 Acoustic Signal Processing for Ocean Explortion 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

The Cumulative Book Index, 1990 A world list of books in the English language
Issues in Acoustic Signal — Image Processing and Recognition C. H. Chen, 2012-12-06 The NATO Advanced Research Workshop on Issues in Acoustic Signal Image Processing and Recognition was held August 5-9 1982 at the Cappuccini complex in San Miniato Italy The Workshop was primarily concerned with the underwater acoustic signal processing and seismic signal analysis and a major effort was made to link these topics with pattern recognition i ge processing and artificial intelligence Major issues and new approaches in these interrelated areas were closely examined in the Workshop In addition to paper presentations three discussion sessions were held on 1 spectral analysis in underwater acoustics 2 seismic wave propaga tion seismic imaging and migration and seismic inversion and 3 unresolved issues and future directions This Proceedings volume includes most presentations made at the Workshop The publication like the meeting itself is unique in the sense that it provides extensive interactions among the closely related areas stated above Such interactions which usually result in the integration of different systems or approaches are certainly much needed to achieve some performance breakthrough while individual systems or approaches reach their performance limit I am grateful to all participants for their active participation that makes the Workshop very productive and to Dr Lewis J Lloyd and Dr Ralph Goodman for their help to arrange an informative visit to the SACLANT ASW Research Centre for the Workshop participants I am confident that this publication will be equally productive to report important current research results and near future research activity particularly in underwater acoustic signal processing
○○○○○○○○○○○○○○○○○○○○ ○○○○○○ (Japan), 1972 ○○○○○○○○○○○○○○○○○○○ , 1989
Conference Record
Ray R. Chen, 1990
Underwater Acoustics and Signal Processing L. Bjørnø, 2012-12-06 The comprehensive research activity around the World in the fields of Underwater Acoustics and Signal Processing being strongly supported by new experimental technique and equipment and by the parallel fast developments in computer technology and solid state devices which has led to a rapidly reducing cost of digital processing thus enabling more complex processing to be carried out economically emphasize how necessary it is at intervals of a few years through a NATO Advanced Study Institute NATO ASI and guided by leading experts to study the conquests in the fields of Underwater Acoustics and Signal Processing This need of study is moreover stressed by the interdisciplinaryity of Underwater Acoustics and Signal Processing where a strong impact from other branches of science Geophysics Radioastronomy Bioengineering Telecommunication Seismology Space Research etc is taking place which makes it an extremely difficult task for scientists to follow up the development in all its phases and to preserve the general view of its rapidly increasing number of possibilities The present Proceedings of the NATO ASI held in Copenhagen during August 1980 join the series of proceedings of NATO summer schools on Underwater Acoustics and Signal Processing held during the past 20 years The equality and the fusion of the individual research fields of Underwater Acoustics and Signal Processing and the separate introduction of advanced research results from other scientific areas related to underwater acoustics such as transducers characterize the subject matter of this NATO ASI
Coherence

and Time Delay Estimation G. Clifford Carter,1993 **NATO Science Programme Yearbook Compendium, 1985-1989**,1989 *Data Analysis Methods in Physical Oceanography* Richard E. Thomson,William J. Emery,2014-07-14 *Data Analysis Methods in Physical Oceanography* Third Edition is a practical reference to established and modern data analysis techniques in earth and ocean sciences Its five major sections address data acquisition and recording data processing and presentation statistical methods and error handling analysis of spatial data fields and time series analysis methods The revised Third Edition updates the instrumentation used to collect and analyze physical oceanic data and adds new techniques including Kalman Filtering Additionally the sections covering spectral wavelet and harmonic analysis techniques are completely revised since these techniques have attracted significant attention over the past decade as more accurate and efficient data gathering and analysis methods Completely updated and revised to reflect new filtering techniques and major updating of the instrumentation used to collect and analyze data Co authored by scientists from academe and industry both of whom have more than 30 years of experience in oceanographic research and field work Significant revision of sections covering spectral wavelet and harmonic analysis techniques Examples address typical data analysis problems yet provide the reader with formulaic recipes for working with their own data Significant expansion to 350 figures illustrations diagrams and photos

A History of the Acoustics Division of the Naval Research Laboratory Fred Tudor Erskine,2013 *Scientific and Technical Aerospace Reports* ,1991

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