



PRINCIPLES OF UNDERWATER SOUND

third edition

Robert J. Urick

Principles Of Underwater Sound

**United States. Office of Scientific
Research and Development. National
Defense Research Committee**



Principles Of Underwater Sound:

Principles of Underwater Sound Robert J. Urick, 1983 *Principles of Underwater Sound* by Robert J. Urick is the most widely used book on underwater acoustics and sonar published today. For more than three decades this book has been the standby of practicing engineers, scientists, technicians, underwater systems managers, teachers, and students. Its contents lie squarely in the middle between theory at one end and practical technology at the other. *Principles* encapsulates the fundamental principles and the various phenomena of underwater sound as they apply to sonar equation, the heart of prediction of sonar performance, and the quantitative assessment of effectiveness of a sonar's target detection capability. Explanations are clear and well written for teaching and self study, and the book has a problem section with solutions. Dr. Robert Urick, the author, was an eminent underwater acoustics scientist and engineer contributing to nearly all phases of underwater sound research. Among his many awards, Robert Urick received the Distinguished Civilian Service Award from the Navy and The Pioneers Medal from the Acoustical Society of America for his authorship of this book, his many experiments on sound propagation, scattering, reverberation, and ambient noise, and his grand scholarship and leadership in the field of underwater acoustics.

Principles of Underwater Sound Robert J. Urick, 1983. Good. No Highlights. No Markup. All pages are intact. Slight Shelfwear. May have the corners slightly dented. May have slight color changes. Slightly damaged spine. *Principles of Underwater Sound* Robert J. Urick, 1975. The book attempts to summarize the principles of underwater sound from the viewpoint of the engineer and the practical scientist. It lies squarely in the middle of the spectrum between theory at one end and sonar technology at the other. Its intent is to provide a summary of the principles, effects, and phenomena of underwater sound and to give numerical quantitative data wherever possible for the solution of practical problems. Preface to first edition. **Principles of Underwater Sound for Engineers** Robert J. Urick, 1970. *Principles of Underwater Sound* U.S. Council of National Defense National Defense Research Committee, 1949.

Sounds of Our Times Robert T. Beyer, 1999. A history of acoustics from the 19th century to the present, written by one of the pre-eminent members of the acoustical community. The book is both a review of the major scientific advances in acoustics as well as an account of famous acousticians and their discoveries, taking in the development of the Acoustical Society of America. Acoustics is distinguished by its interdisciplinary nature, and the book duly explores the field's development in its relationship to other sciences. In addition to covering the history of acoustics, the book concludes with the future of acoustics. Beautifully illustrated. **Principles of Underwater Sound** University of California (1868-1952). Division of War Research. Sonar Data Division, California. University. Division of War Research. Sonar Data Division, 1946.

Principles of Sonar Performance Modelling Michael Ainslie, 2010-09-14. Sonar performance modelling (SPM) is concerned with the prediction of quantitative measures of sonar performance such as probability of detection. It is a multi-disciplinary subject requiring knowledge and expertise in the disparate fields of underwater acoustics, acoustical oceanography, sonar signal processing, and statistical

detection theory No books have been published on this subject however since the 3rd edition of Urick s classic work 25 years ago and so Dr Ainslie s book will fill a much needed gap in the market Currently up to date information can only be found in different forms and often with conflicting information in various journals conference and textbook publications Dr Michael Ainslie is eminently qualified to write this unique book He has worked on sonar performance modeling problems since 1983 He has written many peer reviewed research articles and conference papers related to sonar performance modeling making contributions in the fields of sound propagation and detection theory

Principles and Applications of Underwater Sound U.S. Office of Naval Material Command,CARL (Ed.) Eckart,1968

Principles and Applications of Underwater Sound United States. Office of Scientific Research and Development,1969

Principles and Applications of Underwater Sound United States. Office of Scientific Research and Department. National Defense Research Committee,1968

International Regulation of Underwater Sound Elena McCarthy,2007-05-08 Numerous incidents suggest that man made sound injures and can kill marine mammals This book offers an objective look at how ocean noise should be addressed given the lack of regulatory structure and the scientific uncertainty over the effects of noise on marine life It is an essential text for policymakers governments and NGOs biologists environmental activists oceanographers and those in the shipping engineering and offshore oil and gas industries

Principles of Underwater Sound United States. National Defense Research Committee,Carl Eckart,1946

Principles and Applications of Underwater Sound ,1946

Transducers and Arrays for Underwater Sound John L. Butler,Charles H. Sherman,2016-09-01 This improved and updated second edition covers the theory development and design of electro acoustic transducers for underwater applications This highly regarded text discusses the basics of piezoelectric and magnetostrictive transducers that are currently being used as well as promising new designs It presents the basic acoustics as well as the specific acoustics data needed in transducer design and evaluation A broad range of designs of projectors and hydrophones are described in detail along with methods of modeling evaluation and measurement Analysis of projector and hydrophone transducer arrays including the effects of mutual radiation impedance and numerical models for elements and arrays are also covered The book includes new advances in transducer design and transducer materials and has been completely reorganized to be suitable for use as a textbook as well as a reference or handbook The new edition contains corrections to the first edition end of chapter exercises and solutions to selected exercises Each chapter includes a short introduction end of chapter summary and an extensive reference list offering the reader more detailed information and historical context A glossary of key terms is also included at the end

Principles and Applications of Underwater Sound, Originally Issued as Summary Technical Report of Division 6, NDRC, Vol. 7, 1946, Reprinted...1968 United States. Navy Department,1969

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

Principles and Applications of Underwater Sound United States. Office of Scientific Research and Development. National Defense Research Committee, 1969 **Transducers and Arrays for Underwater Sound** Charles Sherman, John Butler, 2007-01-05 The efficacy of sound to penetrate the seas made acoustic systems in the past century the leading tools for sensing objects in and measuring properties of the seas For over sixty years The United States Office of Naval Research ONR has been a major sponsor of undersea research and development at universities national laboratories and industrial organizations Appropriately ONR is the sponsor of this monograph series The intent of the series is to summarize recent accomplishments in and to outline perspectives for underwater acoustics in specific fields of research The general field has escalated in importance and spread broadly with richness and depth of understanding It has also quite naturally become more specialized The goal of this series is to present monographs that critically review both past and recent accomplishments in order to address the shortcomings in present understanding In this way these works will bridge the gaps in understanding among the specialists and favorably color the direction of new research and development Each monograph is intended to be a stand alone advanced contribution to the field We trust that the reader will also find that each is a critical introduction to related specialized topics of interest as well **Principles and Applications of Underwater Sound** , 1946

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