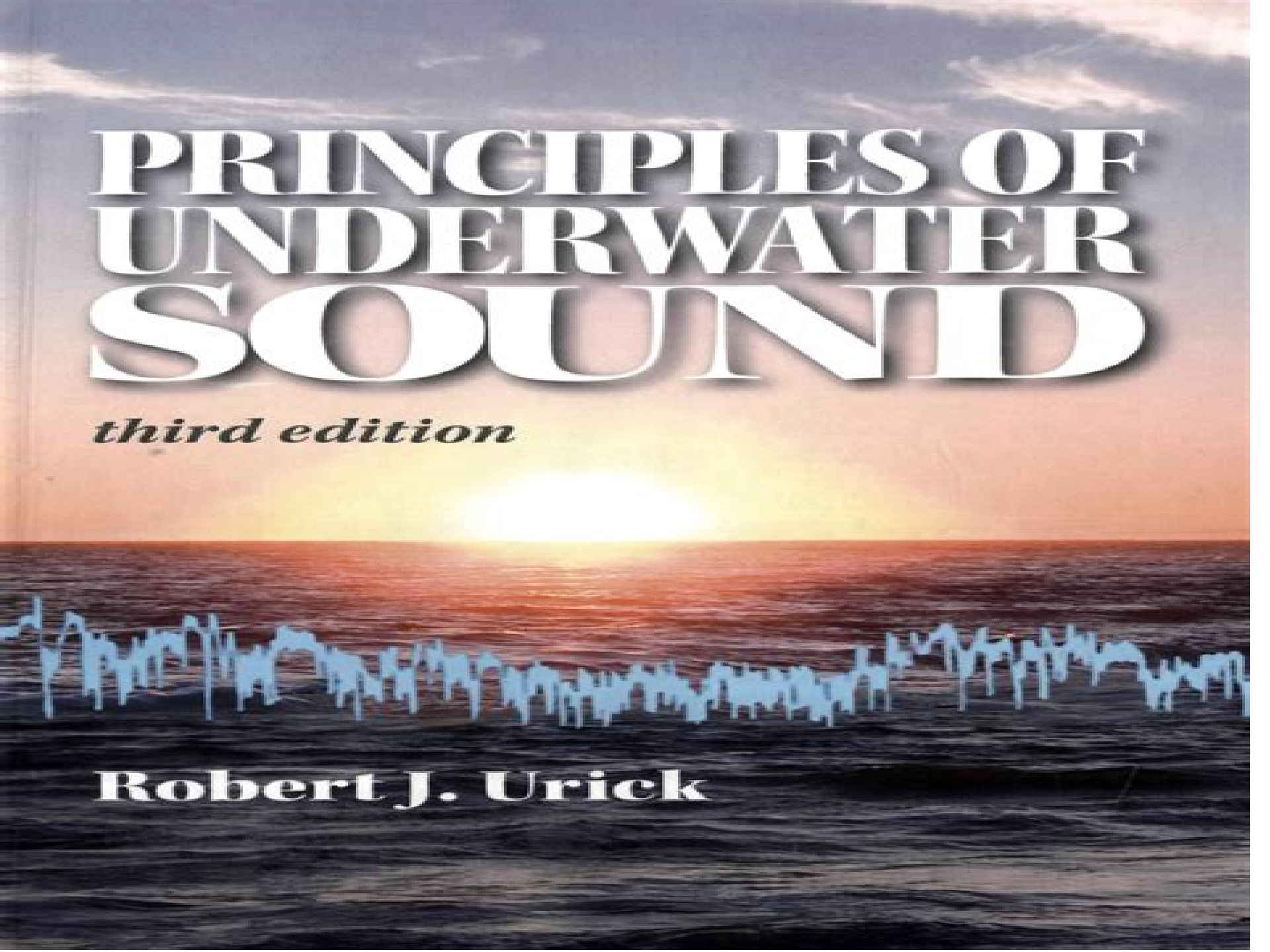


The background of the book cover is a photograph of a sunset or sunrise over the ocean. The sun is a bright, glowing orb on the horizon, casting a warm orange and yellow light across the sky and reflecting on the water. The sky is filled with soft, wispy clouds. The water in the foreground is dark and textured with small waves. A blue, stylized sound wave graphic is overlaid on the water, spanning the width of the cover.

PRINCIPLES OF UNDERWATER SOUND

third edition

Robert J. Urick

Principles Of Underwater Sound

Robert T. Beyer



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 fields 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 *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

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