

Sonar

Whitlow W.L. Au

Advanced Submarine Sonar Technology United States. Bureau of Naval Personnel,1965

The Sonar of Dolphins Whitlow W.L. Au,2012-12-06 The extraordinary ability of dolphins to echolocate has fascinated scientists and the public since its discovery in the late 1950's. This is the first book to summarize modern research in this area, and presents a broad synthesis of this very interdisciplinary subject. The author is an internationally-recognized expert on dolphin sonar and is thus in a unique position to bring together research on the physiological, mathematical and engineering aspects of the subject. Of interest to auditory researchers, electrical engineers, acoustical physicists, and mammalian physiologists.

Sonar and Underwater Acoustics Jean-Paul Marage,Yvon Mori,2013-02-07 Sonar and Underwater Acoustics brings together all the concepts necessary for designers and users of sonar systems. Unlike other books on this subject, which are often too specialized, this book is accessible to a wider audience. The first part focuses on the acoustic environment, antenna structures, and electric acoustic interface. The latter provides knowledge required to design, as well as the development and implementation of chain processes for an active sonar from the conditioning input to output processing. The reader will find a comprehensive range of all problems encountered in underwater acoustics for a sonar application, from physical phenomena governing the environment and the corresponding constraints, through to the technical definition of transducers and antennas, and the types of signal processing involved. In one section, measures in underwater acoustics are also proposed.

Sonar and Underwater Sound Albert W. Cox,1974

Advances in Sonar Technology Sergio Silva,2009-02-01 The demand to explore the largest and also one of the richest parts of our planet, the advances in signal processing promoted by an exponential growth in computation power and a thorough study of sound propagation in the underwater realm, have lead to remarkable advances in sonar technology in the last years.The work on hand is a sum of knowledge of several authors who contributed in various aspects of sonar technology. This book intends to give a broad overview of the advances in sonar technology of the last years that resulted from the research effort of the authors in both sonar systems and their applications. It is intended for scientist and engineers from a variety of backgrounds and even those that never had contact with sonar technology before will find an easy introduction with the topics and principles exposed here.

by United States. Introduction to sonar United States. Bureau of Naval Personnel,2018-09-29 SONAR (sound navigation and ranging) systems have many similarities to RADAR and electro-optical systems. Again, detection is based on the propagation of waves between the target and detector. There are active sonar systems, where the wave propagates from the transmitter to the target and back to the receiver, analogous to pulse-echo radar. There are also passive sonar systems, where the target is the source of the energy which propagates to the receiver, analogous to passive infrared detection. Therefore, a great deal of what has been discussed about these systems will also apply to sonar. Sonar, however, differs fundamentally from radar and electro-optics because the energy is transferred by acoustics waves propagating in water. So we first begin by discussing the characteristics of acoustic waves.

Sonar Karen Price Hossell,2003 Get an overview of sound waves and how they work, and of the history, development, and uses of sonar by both humans and animals.

Statistical Methods in Sonar V. V. Ol'shevskii,2013-11-21 Dr. V. V. Ol'shevskii is perhaps most familiar to Western readers as the author of Characteristics of Sea Reverberation, published in translation by Consultants Bureau (New York, 1967). The present book, Statistical Methods in Sonar, is, in part, a sequel to the first book, where now the author's stated purpose is to acquaint a broad range of specialists with the use of

contemporary statistical methods for solving theoretical and applied sonar problems. As the author quite properly observes, the work is illustrative, devoted to a variety of relevant, specific technical problems from an analytical point of view, and is not in any way intended to be an all-inclusive treatise. Nevertheless, as the reader can verify subsequently, the author has succeeded in accomplishing his stated purpose. He has, moreover, provided us with a useful and, in a number of instances, provocative work, which even five years after its original appearance retains its freshness and interest with material not to date covered in other books on the subject (for example, see Horton [~Q], Stephens [41]). * In this Foreword we first concisely review the author's material, on a chapter-by-chapter basis, after which a short general critique is given. Attention is called to various topics of particular interest to the professional audience, as well as to a number of highlights which deserve the reader's notice (a few additional comments on the technical editing are then included).

Underwater Acoustics Richard P. Hodges, 2011-06-28 Offering complete and comprehensive coverage of modern sonar spectrum system analysis, *Underwater Acoustics: Analysis, Design and Performance of Sonar* provides a state-of-the-art introduction to the subject and has been carefully structured to offer a much-needed update to the classic text by Urick. Expanded to include computational approaches to the topic, this book treads the line between the highly theoretical and mathematical texts and the more populist, non-mathematical books that characterize the existing literature in the field. The author compares and contrasts different techniques for sonar design, analysis and performance prediction and includes key experimental and theoretical results, pointing the reader towards further detail with extensive references. Practitioners in the field of sonar design, analysis and performance prediction as well as graduate students and researchers will appreciate this new reference as an invaluable and timely contribution to the field. Chapters include the sonar equation, radiated, self and ambient noise, active sonar sources, transmission loss, reverberation, transducers, active target strength, statistical detection theory, false alarms, contacts and targets, variability and uncertainty, modelling detections and tactical decision aids, cumulative probability of detection, tracking target motion analysis and localization, and design and evaluation of sonars.

An Introduction to Sonar Systems Engineering Lawrence J. Ziomek, 2017-02-24 Written in tutorial style, this textbook discusses the fundamental topics of modern day Sonar Systems Engineering for the analysis and design of both active and passive sonar systems. Included are basic signal design for active sonar systems and understanding underwater acoustic communication signals. Mathematical theory is provided, plus practical design and analysis equations for both passive and active sonar systems. Practical homework problems are included at the end of each chapter and a solutions manual and lecture slides for each chapter are available for adopting professors.

Introduction to Sonar Transducer Design John C. Cochran, 2022-05-03 INTRODUCTION TO SONAR TRANSDUCER DESIGN A comprehensive introduction to sonar transducer design, complete with real world examples, step-by-step instruction, and detailed mathematical review In *Introduction to Sonar Transducer Design*, renowned sensor engineer Dr. John C. Cochran delivers an instructive and comprehensive exploration of the foundations of sonar transducer design perfect for beginning and experienced professional transducer designers. The book offers a detailed mathematical review of the subject, as well as fulsome design examples. Beginning with a description of acoustic wave propagation, along with a review of radiation from a variety of sources, the book moves on to discuss equivalent circuit models that explain wave propagation in solids and liquids. The book reviews examples of projectors and hydrophones accompanied by complete mathematical solutions. All included math is developed from first principles to a final solution using an intuitive, step-by-step approach. *Introduction to Sonar Transducer Design* offers professionals and students the analytical tools and assumptions required for start-to-finish transducer design. It also provides: A thorough introduction to acoustic waves and radiation, including small signals, linear acoustics, the equations of continuity, motion, the wave equation in a fluid media, and integral

formulations Comprehensive explorations of the elements of transduction, including various forms of impedance, and mechanical and acoustical equivalent circuits, as well as their combination Practical discussions of waves in solid media, including homogeneous, isotropic, elastic, and solid media, piezoelectricity and piezoelectric ceramic materials, and waves in non-homogeneous, piezoelectric media In-depth examinations of sonar projectors and sonar hydrophones, including the elements and tools of sonar projector and sonar hydrophone design, as well as their applications Perfect for sonar system engineers, particularly those involved in defense, Introduction to Sonar Transducer Design will also earn a place in the libraries of acoustic, audio, underwater communication, and naval engineers.

An Introduction to the Theory and Design of Sonar Transducers Oscar Bryan Wilson,1985

Sonar Images Harold Eugene Edgerton,1986 Examines many kinds of sonar recorders, depth finders, and side-scan sonars that proliferated in the marketplace and predicts additional equipment and uses to be developed.

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.

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.

Sonar Savvy Shirley Dudley,2024-03-21 Master the Waters with Revolutionary Sonar TechniquesImagine being able to peer beneath the water's surface, unveiling the hidden enclaves where trophy fish lie in wait. With Sonar Savvy: The Art of Fishing with Sonar Technology, you gain an ally in the depths--an expert guide that transforms your angling adventures using the power of cutting-edge sonar technology. This comprehensive volume is your ticket to not just leveling the playing field, but becoming the apex predator in freshwater and ice fishing arenas.Delve into the captivating history of sonar--from its covert military origins to the revolutionary tool in your tackle box. Absorb the fundamentals of sonar operation and understand the game-changing benefits of forward-facing sonar. Feel the thrill of spotting your elusive quarry on a crisp digital display, bolstered by unparalleled knowledge about interpreting sonar data and fine-tuning your device for maximum efficacy.Whether you're selecting your first unit or mastering advanced features like GPS integration and CHIRP technology, this book covers every conceivable angle. Peek into the future of fishing as you learn how to merge sonar with modern tech like drones and mobile apps. For those who fish to compete, discover strategies to carve out your competitive edge in tournaments while navigating the ethics of technology-assisted fishing.Through the eyes of professionals, absorb real-world

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Handbook of Seafloor Sonar Imagery Philippe Blondel, Bramley J. Murton, 1997-05-30 Most of the ocean floor remains unmapped but with the introduction of acoustic remote sensing and deep submersible dives this is now achievable. The major use of this book is interpretation of sonar images through worked examples.

Blip, Ping, and Buzz Mark Denny, 2007-10-16 Have you ever wondered how stealth planes achieve invisibility, how sunken ships are found, or how fishermen track schools of fish in vast expanses of ocean? Radar and sonar echolocation—a simple matter of sending, receiving, and processing signals. Weaving history with simple science, Mark Denny deftly reveals the world of radar and sonar to the curious reader, technology buff, and expert alike. He begins with an early history of the Chain Home radar system used during World War II and then provides accessible and engaging explanations of the physics that make signal processing possible. Basic diagrams and formulas show how electromagnetic and sound waves are transmitted, received, and converted into images, allowing you to literally see in the dark. A section on bioacoustic echolocation, with a focus on the superior sonar systems of bats and whales and a discussion of the advanced technology of next-generation airborne signal processors, opens the imagination to fascinating possibilities for the future.

Introduction to Sonar Technology Tracor, Inc, 1966

Sonar Systems Nikolai Kolev, 2011-09-12 The book is an edited collection of research articles covering the current state of sonar systems, the signal processing methods and their applications prepared by experts in the field. The first section is dedicated to the theory and applications of innovative synthetic aperture, interferometric, multistatic sonars and modeling and simulation. Special section in the book is dedicated to sonar signal processing methods covering: passive sonar array beamforming, direction of arrival estimation, signal detection and classification using DEMON and LOFAR principles, adaptive matched field signal processing. The image processing techniques include: image denoising, detection and classification of artificial mine like objects and application of hidden Markov model and artificial neural networks for signal classification. The biology applications include the analysis of biosonar capabilities and underwater sound influence on human hearing. The marine science applications include fish species target strength modeling, identification and discrimination from bottom scattering and pelagic biomass neural network estimation methods. Marine geology has place in the book with geomorphological parameters estimation from side scan sonar images. The book will be interesting not only for specialists in the area but also for readers as a guide in sonar systems principles of operation, signal processing methods and marine applications.

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