

Active Sonar 11

Albert W. Cox

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.

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

Sonar and Underwater Sound Albert W. Cox,1974

Atlantic Fleet Active Sonar Training ,2008

Whales and Sonar Kristina Alexander,2008 This report discusses litigation regarding the use of mid-frequency active sonar training exercises and its effects on marine mammals.

Introduction to Sonar Systems Engineering Lawrence J. Ziomek,2017

An Active Sonar Performance Prediction Model W. H. Watson,R. W. McGirr,1972 This report examines the problem of developing a high speed, compact performance prediction model for use in estimating operational performance of active, surface ship sonar systems. Such a model must be suitable for use on computers typically available at Navy laboratories and Fleet shore facilities. An active sonar performance prediction model was developed. A concomitant computer program was written in FORTRAN IV and can provide detection outputs for a single system and environment in less than two minutes using a second generation computer, e.g., CDC 1604, IBM 7090, and UNIVAC 1230. This time is reduced by about one-tenth on newer machines, e.g., CDC 6500, IBM 360, and UNIVAC 1108.

USCG Pacific Operations, Districts 11 and 13 ,2010

Advanced Signal Processing Handbook Stergios Stergiopoulos,2017-09-08 Advances in digital signal processing algorithms and computer technology have combined to produce real-time systems with capabilities far beyond those of just few years ago. Nonlinear, adaptive methods for signal processing have emerged to provide better array gain performance, however, they lack the robustness of conventional algorithms. The challenge remains to develop a concept that exploits the advantages of both-a scheme that integrates these methods in practical, real-time systems. The Advanced Signal Processing Handbook helps you meet that challenge. Beyond offering an outstanding introduction to the principles and applications of advanced signal processing, it develops a generic processing structure that takes advantage of the similarities that exist among radar, sonar, and medical imaging systems and integrates conventional and nonlinear processing schemes.

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.

Active Military Sonar and Marine Mammals ,2005 The deployment of active sonar by the U.S. Navy and its potential impacts on marine mammals has been an ongoing issue of intense debate; regulatory, legislative, and judicial activity; and international concern. Some peacetime use of military sonar has been regulated under the Marine Mammal Protection Act (MMPA) and other statutes due to concerns that active military sonars are operated at frequencies used by some cetaceans (i.e., whales, porpoises, and dolphins), and their high-intensity sound pulses may travel long distances in the ocean. There is also concern that sonar transmissions of sufficiently high intensity might physically damage the hearing in cetaceans or cause them to modify their behavior in ways that are detrimental. Although mid-frequency sonar has been implicated in several beaked whale strandings, there is scientific uncertainty surrounding the totality of the effects active sonar transmissions may have on marine mammals. This report summarizes legal and political events related to active sonar and marine mammals since 1994. Prior to the late 1990s, concerns focused primarily on the use of underwater sound as a research tool. While strandings and mortality of marine mammals, primarily beaked whales, have been observed in concurrence with mid-frequency sonar operation, additional controversy has focused on the development of low-frequency active (LFA) sonar. Environmental interests are concerned with LFA sonar because low-frequency sound travels farther than mid-frequency sound and is closer in frequency to those known to be used by baleen whales. Additional questions involve how to balance obligations of the military to comply with MMPA provisions (as well as provisions of the National Environmental Policy Act and the Endangered Species Act) with national security concerns. Generally speaking, concern about the environmental effects of ocean noise is now principally focused on three activities -- military sonar exercises, oil and gas exploration, and commercial shipping. This report summarizes some of the more significant recent events pertaining to active military sonar, in particular.

Technical Abstract Bulletin Defense Documentation Center (U.S.),1967

Aspects of Signal Processing With Emphasis on Underwater Acoustics, Part 2 G. Tacconi,2012-12-06 This paper describes the results of current research at DREA in which techniques of optimum array processing are being applied to active sonar. We are presenting these results at the Advanced Study Institute in order to illustrate some actual applications for such processing and to point out some of the practical considerations which arise in real systems. In particular, the paper concerns the problems which arise when the individual sensor elements have a complicated directivity pattern themselves. This is a common phenomenon in active systems where the receiving sensors are complex resonant structures and are housed in a dome or towed body presenting various baffling and diffraction effects. Most treatments of array processing consider ideal elements which have well behaved directivity properties and are transparent to the field. The results of this paper show that where these properties are not met, careful in situ array measurements are required, and even with such measurements practical array gains may not be as good as predictions based on ideal sensors.

Active Military Sonar and Marine Mammals Eugene H. Buck,Kori Calvert,2008-02-11 The deployment of active sonar by the U.S. Navy and its potential impacts on marine mammals has been an ongoing issue of intense debate; regulatory, legislative, and judicial activity; and international concern. This report summarizes legal and political events related to active sonar and marine mammals from 1994 to 2008. Prior to the late 1990s, concerns focused primarily on the use of underwater sound as a research tool. Generally speaking, concern about the environmental effects of ocean noise is now principally focused on three activities military sonar exercises, oil and gas exploration, and commercial shipping. This report summarizes some of the more significant events pertaining to active military sonar, in particular. A print on demand report.

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.

War of the Whales Joshua Horwitz,2015-07-21 Joel Reynolds, a crusading attorney, and Ken Balcomb, a marine biologist, teamed up to expose the truth behind a submarine detection system that floods entire ocean basins with high-intensity sound and drives whales onto beaches.

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.

Hawaii Range Complex ,2008

Eleventh NTEC ,1978

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.

Unveiling the Power of Verbal Artistry: An Psychological Sojourn through **Active Sonar 11**

In some sort of inundated with displays and the cacophony of quick interaction, the profound energy and psychological resonance of verbal beauty frequently disappear in to obscurity, eclipsed by the constant barrage of noise and distractions. Yet, nestled within the lyrical pages of **Active Sonar 11**, a fascinating perform of fictional brilliance that pulses with natural thoughts, lies an memorable journey waiting to be embarked upon. Composed with a virtuoso wordsmith, that enchanting opus instructions visitors on a mental odyssey, gently revealing the latent potential and profound influence embedded within the complex internet of language. Within the heart-wrenching expanse of this evocative examination, we shall embark upon an introspective exploration of the book is key subjects, dissect its fascinating publishing type, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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