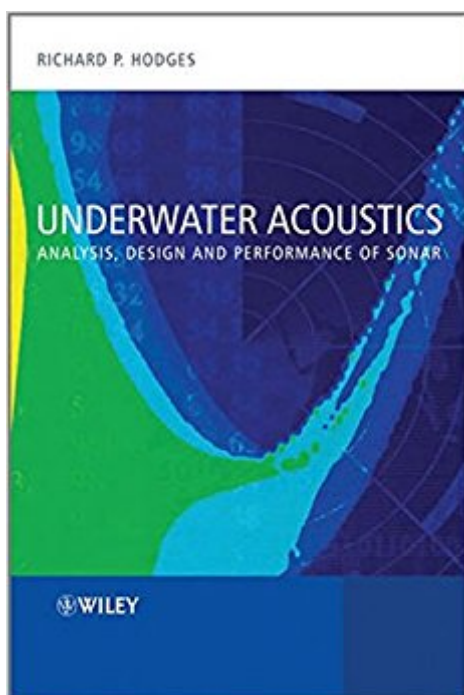


The book was found

Underwater Acoustics: Analysis, Design And Performance Of Sonar



Synopsis

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

Book Information

Hardcover: 372 pages

Publisher: Wiley; 1 edition (July 19, 2010)

Language: English

ISBN-10: 0470688750

ISBN-13: 978-0470688755

Product Dimensions: 6.8 x 1 x 9.9 inches

Shipping Weight: 1.8 pounds

Average Customer Review: Be the first to review this item

Best Sellers Rank: #642,284 in Books (See Top 100 in Books) #130 in [Books > Science & Math > Physics > Waves & Wave Mechanics](#) #250 in [Books > Engineering & Transportation > Engineering > Civil & Environmental > Acoustics](#) #382 in [Books > Science & Math > Physics > Acoustics & Sound](#)

Customer Reviews

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

RICHARD P. HODGES has forty years experience in sonar, operations analysis, modeling, and the simulation of military systems. He is currently working for Sonalysts, Inc as a principal analyst, and is a member of the Acoustic Society of America. He has taught courses at the Naval Underwater Warfare Center (NUWC) and elsewhere in naval analysis of sonar, acoustics, TMA, tactics, weapons, damage and kill mechanisms, C4I, non-acoustic sensors, platform dynamics weapons, tactics and on the use of NUWC's SIM II Naval Engagement Simulation.

[Download to continue reading...](#)

Underwater Acoustics: Analysis, Design and Performance of Sonar Acoustics of Musical Instruments (Modern Acoustics and Signal Processing) The Acoustics of Performance Halls: Spaces for Music from Carnegie Hall to the Hollywood Bowl Everything On Underwater Photography: All You Need To Know On The Art And Techniques Of Underwater Photography The Charter Guest Guide To Underwater Photography: How to Take Stunning Underwater Photos Using Inexpensive Point and Shoot Cameras 2nd Edition Digital Underwater Photography: Jill Heinerth's Guide to Digital Underwater Photography Graphic Design Success: Over 100 Tips for Beginners in Graphic Design: Graphic Design Basics for Beginners, Save Time and Jump Start Your Success (graphic ... graphic design beginner, design skills) Technical History of the Beginnings of Radar (Radar, Sonar, Navigation and Avionics) (History and Management of Technology) Strapdown Inertial Navigation Technology (IEE Radar, Sonar, Navigation and Avionics Series) Applications of Space-Time Adaptive Processing (Iee Radar, Sonar, Navigation and Avionics) Principles of Space

Time Adaptive Processing (Iee Radar, Sonar, Navigation and Avionics Series, 12) Strapdown Inertial Navigation Technology (Iee Radar, Sonar, Navigation and Avionics, No 5) Weibull Radar Clutter (Radar, Sonar, Navigation and Avionics Series, 3) Radar Development to 1945 (Iee Radar, Sonar, Navigation and Avionics Series 2) Radar Techniques Using Array Antennas (FEE radar, sonar, navigation & avionics series) Sound Reproduction: The Acoustics and Psychoacoustics of Loudspeakers and Rooms (Audio Engineering Society Presents) Speech Science Primer: Physiology, Acoustics, and Perception of Speech Preclinical Speech Science: Anatomy, Physiology, Acoustics, and Perception, Second Edition Digital Audio and Acoustics for the Creative Arts Fourier Acoustics: Sound Radiation and Nearfield Acoustical Holography

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)