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Digital Sonar Design in Underwater Acoustics: Principles and Applications. 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.

Sonar, short for Sound Navigation and Ranging, is helpful for exploring and mapping the ocean because sound waves travel farther in the water than do radar and light waves. NOAA scientists primarily use sonar to develop nautical charts, locate underwater hazards to navigation, search for and map objects on the sea floor such as shipwrecks, and map the sea floor itself.

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Digital Sonar Design in Underwater Acoustics: Principles and Applications, Advanced Topics in Science and Technology in China, Volume 0. ISBN 978-3-642-18289-1. Zhejiang University Press, Hangzhou and Springer-Verlag Berlin Heidelberg, 2012

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It is intended for researchers in the fields of underwater signal processing and sonar design, and also for navy officers and ocean explorers.

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DESCRIPTION : Underwater acoustic digital signal processing and communications is an area of applied research that has witnessed major advances over the past decade. Rapid developments in this area were made possible by the use of powerful digital signal processors (DSPs) whose speed, computational power and portability allowed efficient implementation of complex signal processing algorithms ...

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