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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.

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The DSP (digital signal processor) chip is extensively used in sonar systems and considerably increases the processing capability and performance. Also, the design philosophy of digital sonar and...

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The DSP (digital signal processor)
chip is extensively used in sonar
systems and considerably increases
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performance. Also, the design philosophy of digital sonar and its applications advances research in underwater acoustics and digital signal processing.

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processing, basic concept of
information theory, ocean acoustics,
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sonar system can be considered

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because of the perceptible increase in the calculating capacities and the introduction of everything digital in signal processing. This book is mainly aimed at technicians and engineers who work in the field of underwater acoustics and in particular in the field of sonar. Its purpose is to give the

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Acoustics Principles And

Sonar and Underwater Acoustics

The design of digital sonar is related to a wide knowledge of many subjects in science and technology.

These include aspects of oceanography, platform noise, sensor technology, acoustic materials, the

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optimum extraction of weak signals,
signal processing, the architecture of
computer systems, human / machine
engineering and artificial intelligence,
etc.

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processing and communication
systems describes new design and
development methodologies in
underwater acoustic signal
processing the emphasis is on
experimental efforts and modern dsp
implementations the book assembles
a number of contributions from

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authors who have contributed
significantly to the field the topics
cover a broad range of underwater
underwater acoustic digital signal
processing and ...

The whole field of civil work in sonar
and underwater acoustics is

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reviewed, discussing in particular the problems of short-range highresolution sonar and sonar for fisheries, the influence of micro-electronics on sonar philosophy, the growing importance of the exploitation of nonlinear acoustic wave interactions in sonar

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Digital design is a general term that is
more relevant now than ever before.

Put simply, any kind of design that
appears in a digital format (on an app
or website), rather than in print (on a
physical page), is considered digital

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design. On Quora, user Retika Gore gives a concise digital design definition:

What Is Digital Design and Why Is it Important ...

Welcome to Digital Ocean Web Design. Based in Royston,

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Hertfordshire, we enjoy supplying
Web Design and other Digital
Services to businesses in Royston,
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counties of Essex and Hertfordshire.
We have clients based in Buntingford,
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and Cambridge.

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"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

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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

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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

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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.

Offering complete and

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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

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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

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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

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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,

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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

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evaluation of sonars

Applications Advanced

This volume presents the Proceedings of the Sixth International Conference on Green and Human Information Technology (ICGHIT), held in Chiang Mai, Thailand, Jan 31-Feb 2, 2018.

ICGHIT is the unique global

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conference for researchers, industry professionals, and academics interested in the latest development of green and human information technology. Its broad scope ranges from electronics to communications, computers, multimedia and signal processing, control and intelligent

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systems, IC and convergence technologies, which are related to green and human issues such as energy saving and human welfare. Specially in this volume, ICGHIT covers state-of-the-art technologies for the 4th industrial revolution, for example, cyber security, big data and

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cloud service, smart medical system,
machine learning and its applications.

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

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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

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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

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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.

Collecting and processing data is a

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necessary aspect of living in a technologically advanced society. Whether it's monitoring events, controlling different variables, or using decision-making applications, it is important to have a system that is both inexpensive and capable of coping with high amounts of data.

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Technological Breakthroughs in
Modern Wireless Sensor Applications
brings together new ways to process
and monitor data, and to put it to
work in everything from intelligent
transportation systems to healthcare
to multimedia applications. This book
is an essential reference source for

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research and development engineers, graduate students, academics, and researchers interested in intelligent engineering, internetworking, routing, and network planning algorithms.

Underwater acoustic digital signal

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Acoustics 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

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allowed efficient implementation of complex signal processing algorithms and experimental demonstration of their performance in a variety of underwater environments. The early results served as a motivation for the development of new and improved signal processing methods for

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Underwater applications, which today range from classical of autonomous underwater vehicles and sonar signal processing, to remote control underwater wireless communications. This book presents the diverse areas of underwater acoustic signal processing and

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communication systems through a collection of contributions from prominent researchers in these areas. Their results, both new and those published over the past few years, have been assembled to provide what we hope is a comprehensive overview of the recent developments

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in the field. The book is intended for a general audience of researchers, engineers and students working in the areas of underwater acoustic signal processing. It requires the reader to have a basic understanding of the digital signal processing concepts. Each topic is treated from a

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theoretical perspective, followed by practical implementation details. We hope that the book can serve both as a study text and an academic reference.

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Digital Underwater Acoustic
Communications focuses on
describing the differences between
underwater acoustic communication
channels and radio channels,
discusses loss of transmitted sound in

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underwater acoustic channels, describes digital underwater acoustic communication signal processing, and provides a comprehensive reference to digital underwater acoustic communication equipment. This book is designed to serve as a reference for postgraduate students

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and practicing engineers involved in the design and analysis of underwater acoustic communications systems as well as for engineers involved in underwater acoustic engineering. Introduces the basics of underwater acoustics, along with the advanced functionalities needed to

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achieve reliable communications in
underwater environment Identifies
challenges in underwater acoustic
channels relative to radio channels,
underwater acoustic propagation,
and solutions Shows how multi-path
structures can be thought of as time
diversity signals Presents a new,

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robust signal processing system, and an advanced FH-SS system for multimedia underwater acoustic communications with moderate communication ranges (above 20km) and rates (above 600bps) Describes the APNFM system for underwater acoustic communication equipment

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(including both civil and military applications), to be employed in active sonar to improve its performance

These proceedings are a collection of 16 selected scientific papers and reviews by distinguished

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international experts that were presented at the 4th Pacific Rim Underwater Acoustics Conference (PRUAC), held in Hangzhou, China in October 2013. The topics discussed at the conference include internal wave observation and prediction; environmental uncertainty and

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coupling to sound propagation;
environmental noise and ocean
dynamics; dynamic modeling in
acoustic fields; acoustic tomography
and ocean parameter estimation;
time reversal and matched field
processing; underwater acoustic
localization and communication as

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well as measurement
instrumentations and platforms.
These proceedings provide insights
into the latest developments in
underwater acoustics, promoting the
exchange of ideas for the benefit of
future research.

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