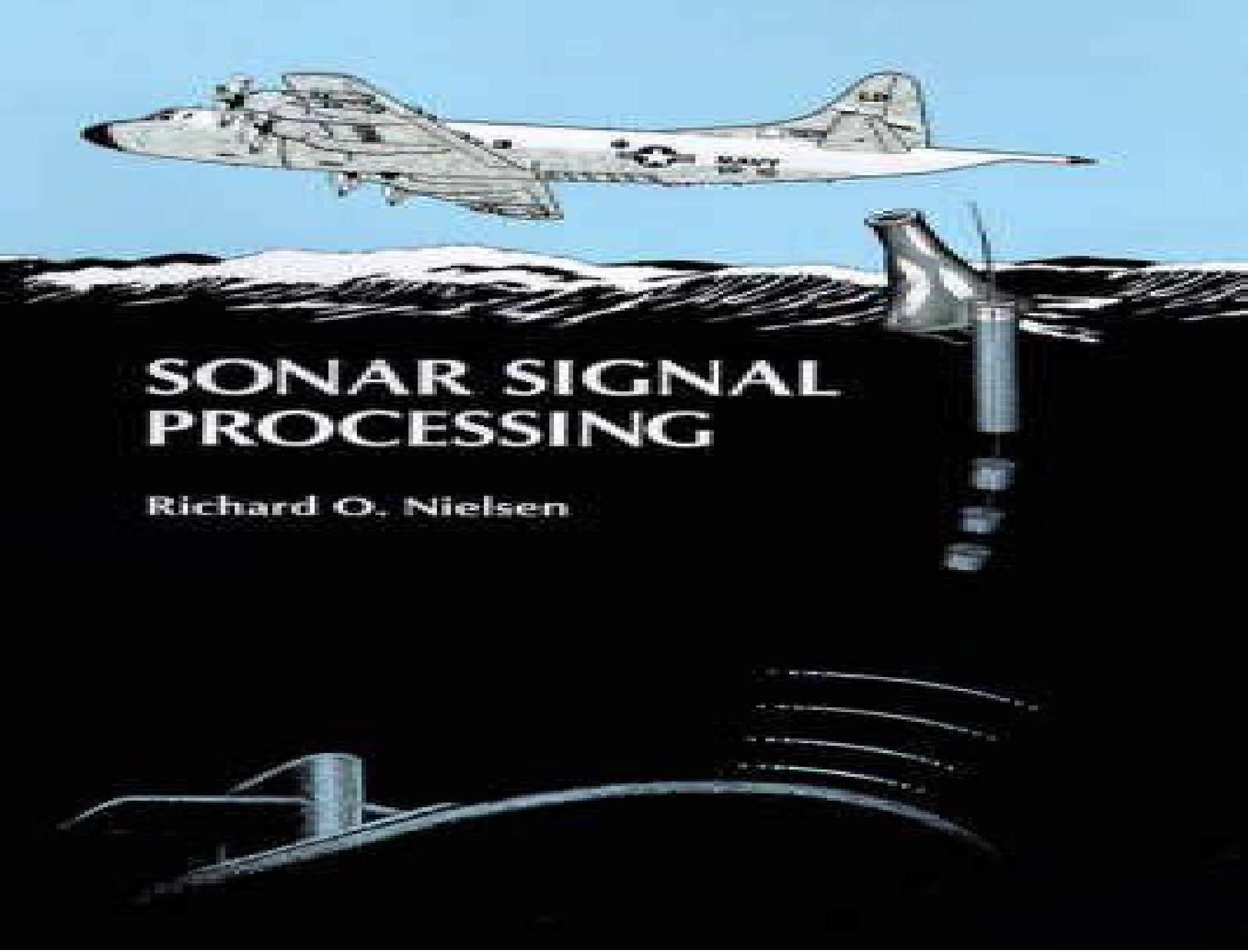




SONAR SIGNAL PROCESSING

Richard O. Nielsen

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Guillaume Favre



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Sonar Signal Processing Richard O. Nielsen, 1991 This discussion of sonar signal processing bridges a number of related fields including acoustic propagation in the medium detection and estimation theory filter theory digital filtering sensor array processing spectral analysis fast transforms and digital signal processing The book begins with a discussion of the topics of analogue signalling conditioning digital filtering and the calculation of the discrete Fourier transform Other topics discussed include analogue filters and analogue to digital conversion finite impulse and infinite impulse response digital filters and multirate processing techniques *Handbook of Signal Processing in Acoustics* David Havelock, 2008

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 **Academic Press Library in Signal Processing** Mats Viberg, Abdelhak Zoubir, 2013-08-31 This third volume edited and authored by world leading experts gives a review of the principles methods and techniques of important and emerging research topics and technologies in array and statistical signal processing With this reference source you will Quickly grasp a new area of research Understand the underlying principles of a topic and its application Ascertain how a topic relates to other areas and learn of the research issues yet to be resolved Quick tutorial reviews of important and emerging topics of research in array and statistical signal processing Presents core principles and shows their application Reference content on core principles technologies algorithms and applications Comprehensive references to journal articles and other literature on which to build further more specific and detailed knowledge Edited by leading people in the field who through their reputation have been able to commission experts to write on a particular topic **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 Technical Abstract Bulletin , **Journal of the Audio Engineering Society** Audio Engineering Society,2003 Directory of members published as pt 2 of Apr 1954 issue **Program Solicitation** ,1995 **Handbook of Surveillance Technologies** J.K. Petersen,Pamela Taylor,2012-01-23 From officially sanctioned high tech operations to budget spy cameras and cell phone video this updated and expanded edition of a bestselling handbook reflects the rapid and significant growth of the surveillance industry The Handbook of Surveillance Technologies Third Edition is the only comprehensive work to chronicle the background and curre Technical Report ,1992

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