


HANDBOOK OF
FORMULAS AND
TABLES FOR
SIGNAL PROCESSING

Editor-in-Chief
Alexander D. Poularikas



The Handbook Of Formulas And Tables For Signal Processing

Robert H. Bishop



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Basic Radar Analysis, Second Edition Mervin C. Budge, Shawn R. German, 2020-04-30 This highly anticipated second edition of an Artech House classic covers several key radar analysis areas the radar range equation detection theory ambiguity functions waveforms antennas active arrays receivers and signal processors CFAR and chaff analysis Readers will be able to predict the detection performance of a radar system using the radar range equation its various parameters matched filter theory and Swerling target models The performance of various signal processors single pulse pulsed Doppler LFM NLFM and BPSK are discussed taking into account factors including MTI processing integration gain weighting loss and straddling loss The details of radar analysis are covered from a mathematical perspective with in depth breakdowns of radar performance in the presence of clutter Readers will be able to determine the noise temperature of a multi channel receiver as it is used in active arrays With the addition of three new chapters on moving target detectors inverse synthetic aperture radar ISAR and constant false alarm rate CFAR and new MATLAB codes this expanded second edition will appeal to the novice as well as the experienced practitioner

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Digital Sonar Design in Underwater Acoustics Qihu Li, 2012-03-05. 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 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 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 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.

Hands-on Signals and Systems Theory Kajetana Marta Snopek, 2024-06-04. This textbook presents the theory of continuous time and discrete time signals and systems and shows how it can be used to solve analytically different problems. The book is dedicated to engineering students who are interested in mathematical methods used to solve real technical problems connected with signals and systems. The book covers both in continuous and in discrete domains: analysis of signals in time domain, orthogonal signal representation including Fourier series, convolution and correlation of signals, analysis of signals in the frequency domain and signal sampling including aliasing and stroboscopic effects among others. The author also emphasizes the role of Fourier, one sided Laplace and one sided Z transformations in signals and systems. Chosen methods of analog and digital filter design and stability criteria of analog and digital filters are also described. The author presents the necessary theory in the form of a concise lecture accompanied with a number of solved original problems. Every chapter ends with

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