



Weibull Radar Clutter

Matsuo Sekine
and Yuhai Mao

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Weibull Radar Clutter Weibull Radar Clutter:

Weibull Radar Clutter Matsuo Sekine, Yuhai Mao, 1990 The material presented in this book is intended to provide the reader with a practical treatment of Weibull distribution as applied to radar systems This book is primarily written for radar engineers Topics include general derivation of Weibull distribution measurements of Weibull distributed clutter comparison of Weibull distribution with various distributions including Rayleigh gamma log normal and k distributions to name just a few

Weibull Radar Clutter Matsuo Sekine, Yuhai Mao, 1990 Weibull Radar Clutter Matsuo Sekine, 1990 The book reviews developments in the following fields Weibull radar clutter Weibull distribution signal detection and Weibull clutter suppression , Artificial Neural Networks - ICANN 2008 Vera Kurkova-Pohlova, Jan Koutnik, 2008-08-29 This two volume set LNCS 5163 and LNCS 5164 constitutes the refereed proceedings of the 18th International Conference on Artificial Neural Networks ICANN 2008 held in Prague Czech Republic in September 2008 The 200 revised full papers presented were carefully reviewed and selected from more than 300 submissions The second volume is devoted to pattern recognition and data analysis hardware and embedded systems computational neuroscience connectionistic cognitive science neuroinformatics and neural dynamics it also contains papers from two special sessions coupling synchronies and firing patterns from cognition to disease and constructive neural networks and two workshops new trends in self organization and optimization of artificial neural networks and adaptive mechanisms of the perception action cycle

The Radar Range Equation for the Detection of Steady Targets in Weibull Clutter Leon C. Rountree, AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OH., 1990 In this thesis the detection characteristics of a steady target immersed in radar clutter characterized by returns statistically modeled according to a Weibull probability density function are developed A detector model is developed by modifying an envelope detection scheme used to detect deterministic signals in Gaussian noise By examining the statistics of the detector output under alternate hypotheses an expression for the probability of detection P_d is developed in terms of the probability of false alarm P_{fa} the signal to clutter ratio SCR and the Weibull skewness parameter b which is a function of the type of terrain causing the clutter This expression is used in conjunction with a form of the radar range equation for area clutter to describe the relationship between P_d , P_{fa} , SCR, b and the radar detection range This relationship involves Marcum's Q function and an algorithm is presented which evaluates this function The algorithm is a series approximation also presented as a recursive relationship that can be computed to a desired precision Plots of P_d versus SCR and P_d versus range are developed for various values of P_{fa} and b The plots provide a means of evaluating the detector performance and predicting the radar detection range for several values of b

Academic Press Library in Signal Processing Fulvio Gini, Nikolaos D. Sidiropoulos, 2013-09-10 This second 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 communications and radar engineering 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

IEICE Transactions on Communications, Electronics, Information, and Systems, 1991

Noise and Clutter Rejection in Radars and Imaging Sensors T. Suzuki, H. Ogura, Sadao Fujimura, 1990 The 138 papers contained in this volume present the newest and most sophisticated techniques which have been developed in different but related fields of research from radar to medical and industrial imaging Enormously extended areas of research are covered they are however related to each other from the view point of noise and clutter rejection The interdisciplinary nature of the proceedings will make them of considerable interest to a broad readership A selection of contents Polarimetric SAR Principles and Applications F T Ulaby Flow field characterization by NMR O Nalcioglu Weibull clutter and its suppression M Sekine Sessions A Noise and Clutter Properties I Application of the K distribution to Radar Clutter K D Ward Sea CAS Sea clutter acquisition system J Dunn Rogers Space and frequency correlation of multipath fading due to sea surface scattering and its reduction by diversity technique for low G T mobile satellite communications M Yasunaga et al II A study of land clutter spectrum N Li Polarimetric measurement of the propagation characteristics of forest clutter M W Whitt et al Remote Sensing I

Low-Angle Radar Land Clutter J. Barrie Billingsley, 2002-04-01 A necessary reference for all radar engineers or analysts including many levels of managers advisors and decision makers in the U S and worldwide radar industry Directly useful in both military DOD and civilian FAA applications The result of 20 years of research at MIT Lincoln Lab this book is of the most significant technological consequence for the industry It actually solves the problem of low angle radar land clutter by showing the reader how to design and predict the performance of radars that operate in situations where land clutter prevalent Radar land clutter constitutes the unwanted radar echoes returned from the earth's surface that compete against and interfere with the desired

echoes returned by targets such as aircraft and other moving and stationary targets The ability to accurately predict the effects of land clutter in surface radar has been an unsolved problem for many years This book is comprehensive in addressing the topic containing many interrelated results each important in its own right It unifies and integrates all the results so as to create a comprehensive innovative and unequalled work The results of this book directly enable the reader to predict land clutter effects in surface radar Modern military aircraft deliberately fly low to hide their presence from radars that are also dealing with land clutter Depending on the terrain the performance of the radar varies greatly from very good to very poor This book helps radar engineers provide accurate assessments of ground clutter thus bringing their ability to detect and operate against low flying aircraft to a much higher and much more consistent level The Transactions of the Institute of Electronics, Information and Communication Engineers ,1990 *The Transactions of the Institute of Electronics and Communication Engineers of Japan* Denshi Tsūshin Gakkai,1985 **New Technical Books** New York Public Library,1991 *International Journal of Infrared and Millimeter Waves* ,2003 **The Weibull Distribution Applied to the Ground Clutter Backscatter Coefficient** Robert R. Boothe,ARMY MISSILE COMMAND REDSTONE ARSENAL AL RESEARCH AND ENGINEERING DIRECTORATE (PROVISIONAL),1969 Spatial distributions of the ground clutter backscatter coefficient σ_0 for various types of terrain have been found to fit a Weibull distribution quite well This report discusses the Weibull distribution quite well This report discusses the Weibull probability distribution function and its characteristics and presents some clutter measurements that demonstrate the Weibull distribution The data presented include measurements taken at L S and X band frequencies at several depression angles and for various resolution cell sizes A method for generation of random variables that fit a selected Weibull statistical population for use in radar simulations is also given **Millimeter-wave and Infrared Multisensor Design and Signal Processing** Lawrence A. Klein,1997 Here s a practical non theoretical introduction to the principles applications and benefits of multi sensor technology used in smart weapon development surveillance systems and an increasing variety of non military applications This book provides a broad overview of MMW millimeter wave and IR infrared sensor constraints design principles system alternatives and targeting applications and is unique in its coverage of integrated MMW and IR multisensor design **International Aerospace Abstracts** ,1999 **Space-time Adaptive Processing** Richard Klemm,1998 This is a systematic introduction to airborne MTI radar design in use in the fields of earth observation surveillance and reconnaissance with particular regard to the suppression of clutter returns It explores signal processing techniques jamming and system applications including sonar
 Government Reports Annual Index ,1969

The Enigmatic Realm of **Weibull Radar Clutter Weibull Radar Clutter**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Weibull Radar Clutter Weibull Radar Clutter** a literary masterpiece penned by way of a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of those who partake in its reading experience.

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