



# Weibull Radar Clutter

Matsuo Sekine  
and Yuhai Mao

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**Vera Kůrková**



## **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 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  $b$

*Artificial Neural Networks - ICANN 2008* Vera Kůrková, 2008-08-25 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

*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 Low-angle Radar Land Clutter J. Barrie Billingsley, 2002 In this unique book Billingsley solves the problem of radar land clutter by showing the reader how to design and predict the performance of radars that operate in situations where echoes from the earth's surface interfere with radar target echoes

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      *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 Nalcioğlu 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      *The Transactions of the Institute of Electronics, Information and Communication Engineers*, 1990      *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  $\sigma_0$  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 *IEICE Transactions on Communications, Electronics, Information, and Systems* ,1991 **New Technical Books** New York Public Library,1991 International Journal of Infrared and Millimeter Waves ,2003 **The Transactions of the Institute of Electronics and Communication Engineers of Japan** Denshi Tsūshin Gakkai,1985 **The Transactions of the Institute of Electronics and Communications Engineers of Japan** Denshi Tsūshin Gakkai,1985 **U.S. Government Research & Development Reports** ,1969-10 *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

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