



Why Understand Radar Clutter?

Naval Air Defense Scenario



Radar echo is composed of:

- Backscatter from target of interest
- Receiver noise
- Atmospheric noise
- Interference
 - From other radars
 - Jammers
- Backscatter from unwanted objects
 - Ground
 - Sea
 - Rain
 - Chaff
 - Birds
 - Ground traffic



Radar Clutter

Kasra Barkeshli



Radar Clutter:

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

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

Radar Clutter David K. Barton, Millimeter-wave Radar Clutter Nicholas C. Currie, Robert Deming Hayes, Robert Neil Trebits, 1992 This book addresses those phenomenological characteristics of radar clutter and propagation in the millimeter wave region that are of particular importance in the design test and evaluation of millimeter wave sensors Drawing on the detection procedures outlined you can use this book to solve many types of target in clutter detection problems quickly and accurately Supported by 295 equations and 119 illustrations

Introduction to RF Propagation John S. Seybold, 2005-09-19 An introduction to RF propagation that spans all wireless applications This book provides readers with a solid understanding of the concepts involved in the propagation of electromagnetic waves and of the commonly used modeling techniques While many books cover RF propagation most are geared to cellular telephone systems and therefore are limited in scope This title is comprehensive it treats the growing number of wireless applications that range well beyond the mobile telecommunications industry including radar and satellite communications The author's straightforward clear style makes it easy for readers to gain the necessary background in electromagnetics communication theory and probability

so they can advance to propagation models for near earth indoor and earth space propagation Critical topics that readers would otherwise have to search a number of resources to find are included RF safety chapter provides a concise presentation of FCC recommendations including application examples and prepares readers to work with real world propagating systems Antenna chapter provides an introduction to a wide variety of antennas and techniques for antenna analysis including a detailed treatment of antenna polarization and axial ratio the chapter contains a set of curves that permit readers to estimate polarization loss due to axial ratio mismatch between transmitting and receiving antennas without performing detailed calculations Atmospheric effects chapter provides curves of typical atmospheric loss so that expected loss can be determined easily Rain attenuation chapter features a summary of how to apply the ITU and Crane rain models Satellite communication chapter provides the details of earth space propagation analysis including rain attenuation atmospheric absorption path length determination and noise temperature determination Examples of widely used models provide all the details and information needed to allow readers to apply the models with confidence References provided throughout the book enable readers to explore particular topics in greater depth Additionally an accompanying Wiley ftp site provides supporting MathCad files for select figures in the book With its emphasis on fundamentals detailed examples and comprehensive coverage of models and applications this is an excellent text for upper level undergraduate or graduate students or for the practicing engineer who needs to develop an understanding of propagation phenomena

Sea Clutter Keith D. Ward, Simon Watts, Robert J.A. Tough, 2006-06-21 *Sea Clutter* Scattering the K Distribution and Radar Performance examines the statistics of radar scattering from the sea surface in terms of their relevance to radar operating in a maritime environment including remote sensing surveillance and targeting applications A lot of the work in the book is based on the compound K distribution model for the amplitude statistics of sea clutter In addition the book addresses the specification of performance required by customers and the measurement of performance of systems supplied to customers

Radar Sea Clutter Luke Rosenberg, Simon Watts, 2021-12-17 This book presents comprehensive coverage of new research into sea clutter characterisation and modelling radar performance prediction and maritime target detection The book also includes a summary of sea clutter scattering characteristics and datasets provided that can be used for modelling

Forward-Looking Radar Clutter Suppression Using Frequency Diverse Arrays Piotr Baizert, 2025-05-22 Forward Looking Airborne Radar FLAR Space Time Adaptive Processing STAP has not achieved the same level of radar performance improvement as side looking radar because the ground clutter doppler range dependence destroys the Independent and Identically Distributed iid assumption key to the STAP foundation This thesis examines the Frequency Diverse Array FDA where each channel transmits and receives at a different frequency The resulting range dependent FDA antenna pattern is proposed to improve FLAR STAP performance The planar FDA radar data model is derived and analytically verified to be equivalent to the constant frequency data model when each element frequency is set to the same value The linear FDA at

high platform altitude provides significant benefits by reducing the range ambiguous clutter contribution improving target detection by 10 dB at the range ambiguous clutter notch This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it This work was reproduced from the original artifact and remains as true to the original work as possible Therefore you will see the original copyright references library stamps as most of these works have been housed in our most important libraries around the world and other notations in the work This work is in the public domain in the United States of America and possibly other nations Within the United States you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work As a reproduction of a historical artifact this work may contain missing or blurred pages poor pictures errant marks etc Scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public We appreciate your support of the preservation process and thank you for being an important part of keeping this knowledge alive and relevant

Radars: Radar clutter David Knox Barton, 1974 *RADAR CLUTTER RESEARCH*. Stephen N. Andre, Marley E. Bechtel, David A. Foster, CORNELL AERONAUTICAL LAB INC BUFFALO N Y., 1968 The objective of this program was to prepare a clutter research plan for Army air defense weapons that encompasses the anticipated methods of employment of these weapons as well as the problems associated with the introduction of new radar technology in these systems Specifically the investigations included studies of the physics of electromagnetic scattering from rough surfaces a definition of clutter problems as related to innovations in radar technology such as electronic beam steering signal processing and design computer technology study of clutter models and simulation techniques and a study of clutter effects in a radar defense complex Probability density functions correlation functions and doppler spectra of clutter signals are derived for the configuration in which only a few major scatterers are present Results are presented for both coherent and noncoherent detection Methods of simulating clutter using both analog and digital approaches are described Emphasis is placed on advanced forms of simulators such as would be required for evaluation of future multi dimensional radar systems rather than on additive filtered noise for the simulation of clutter The simulation techniques are based on two suggested generic forms of clutter models called open loop and closed loop Because of the greater flexibility of closed loop simulation this is presented in greater detail Techniques for performing radar clutter measurements are described and some of the significant problems related primarily to terrain and cultural observables are discussed Clutter problems as related to radar systems and innovations in radar technology such as electronically steered phased arrays are also described Author

Advanced Electromagnetics and Scattering Theory Kasra Barkeshli, 2014-10-25 This book presents the lecture notes used in two courses that the late Professor Kasra Barkeshli had offered at Sharif University of Technology namely Advanced Electromagnetics and Scattering Theory The prerequisite for the sequence is vector calculus and electromagnetic fields and waves Some familiarity with Green's functions and integral equations is desirable but not necessary The book provides a

brief but concise introduction to classical topics in the field It is divided into three parts including annexes Part I covers principle of electromagnetic theory The discussion starts with a review of the Maxwell s equations in differential and integral forms and basic boundary conditions The solution of inhomogeneous wave equation and various field representations including Lorentz s potential functions and the Green s function method are discussed next The solution of Helmholtz equation and wave harmonics follow Next the book presents plane wave propagation in dielectric and lossy media and various wave velocities This part concludes with a general discussion of planar and circular waveguides Part II presents basic concepts of electromagnetic scattering theory After a brief discussion of radar equation and scattering cross section the author reviews the canonical problems in scattering These include the cylinder the wedge and the sphere The edge condition for the electromagnetic fields in the vicinity of geometric discontinuities are discussed The author also presents the low frequency Rayleigh and Born approximations The integral equation method for the formulation of scattering problems is presented next followed by an introduction to scattering from periodic structures Part III is devoted to numerical methods It begins with finite difference methods to solve elliptic equations and introduces the finite difference time domain method for the solution of hyperbolic and parabolic equations Next the part turns to the method of moments for the solution of integral equations This part ends with a short introduction to the finite element method

Modern Radar Systems Hamish Meikle, 2008 This revised and updated edition to the popular Artech House book Modern Radar Systems offers complete and current coverage of the subject including new material on accuracy resolution and convolution and correlation The book features more than 540 illustrations drawn in Maple V that offer a greater understanding of various waveforms and other two and three dimensional functions to help you more accurately analyze radar system performance The effects of pulse shaping on transmitter stability and spectra are discussed a topic which is becoming more and more important in the age of electromagnetic compatibility The book addresses the importance of low attenuation and reflection between the main radio frequency blocks including the use of oversized waveguides for long runs

Principles of Space-Time Adaptive Processing Richard Klemm, 2006-11-28 This book presents a systematic introduction to airborne MTI moving target indication system design for use in the fields of earth observation surveillance and reconnaissance with particular regard to the suppression of clutter returns New developments in the field and special aspects of airborne MTI radar are also covered

The Electronics Handbook Jerry C. Whitaker, 1996-12-23 The superb organization of The Electronics Handbook means that it is not only a comprehensive and fascinating reference but also a pleasure to use Some of these organizational features include

Nonlinear Stochastic Problems S. Bucy, J.M.F Moura, 2012-12-06 This volume corresponds to the invited lectures and advanced research papers presented at the NATD Advanced Study Institute on Nonlinear Stochastic Problems with emphasis on Identification Signal Processing Control and Nonlinear Filtering held in Algarve Portugal on May 1982 The book is a blend of theoretical issues algorithmic implementation aspects and application examples In many areas of science and engineering

there are problems which are intrinsically nonlinear 3rd stochastic in nature Clear examples arise in identification and modeling signal processing nonlinear filtering stochastic and adaptive control The meeting was organized because it was felt that there is a need for discussion of the methods and philosophy underlying these different areas and in order to communicate those approaches that have proven to be effective As the computational technology progresses more general approaches to a number of problems which have been treated previously by linearization and perturbation methods become feasible and rewarding

Digital Communication C Palanisamy, 2012-03-07 All marketing is digital and everyone should have a digital strategy Everything is going mobile The world has never been more social is the recent talk in the community Digital Communication is the key enabler of that Digital information tends to be far more resistant to transmit and interpret errors than information symbolized in an analog medium This accounts for the clarity of digitally encoded telephone connections compact audio disks and much of the enthusiasm in the engineering community for digital communications technology A contemporary and comprehensive coverage of the field of digital communication this book explores modern digital communication techniques The purpose of this book is to extend and update the knowledge of the reader in the dynamically changing field of digital communication

Digital Signal Processing 101 Michael Parker, 2017-06-28 Digital Signal Processing 101 Everything You Need to Know to Get Started provides a basic tutorial on digital signal processing DSP Beginning with discussions of numerical representation and complex numbers and exponentials it goes on to explain difficult concepts such as sampling aliasing imaginary numbers and frequency response It does so using easy to understand examples with minimum mathematics In addition there is an overview of the DSP functions and implementation used in several DSP intensive fields or applications from error correction to CDMA mobile communication to airborne radar systems This book has been updated to include the latest developments in Digital Signal Processing and has eight new chapters on Automotive Radar Signal Processing Space Time Adaptive Processing Radar Field Orientated Motor Control Matrix Inversion algorithms GPUs for computing Machine Learning Entropy and Predictive Coding Video compression Features eight new chapters on Automotive Radar Signal Processing Space Time Adaptive Processing Radar Field Orientated Motor Control Matrix Inversion algorithms GPUs for computing Machine Learning Entropy and Predictive Coding and Video compression Provides clear examples and a non mathematical approach to get you up to speed quickly Includes an overview of the DSP functions and implementation used in typical DSP intensive applications including error correction CDMA mobile communication and radar systems

Scientific and Technical Aerospace Reports, 1992 [Principles of Integrated Maritime Surveillance Systems](#) A. Nejat Ince, Ercan Topuz, Erdal Panayirci, Cevdet Isik, 2012-12-06 Information is always required by organizations of coastal states about the movements identities and intentions of vessels sailing in the waters of interest to them which may be coastal waters straits inland waterways rivers lakes or open seas This interest may stem from defense requirements or from needs for the protection of off shore resources enhanced search and rescue services deterrence of smuggling drug trafficking

and other illegal activities and or for providing vessel traffic services for safe and efficient navigation and protection of the environment To meet these needs it is necessary to have a well designed maritime surveillance and control system capable of tracking ships and providing other types of information required by a variety of user groups ranging from port authorities shipping companies marine exchanges to governments and the military Principles of Integrated Maritime Surveillance Systems will be of vital interest to anyone responsible for the design implementation or provision of a well designed maritime surveillance and control system capable of tracking ships and providing navigational and other types of information required for safe navigation and efficient commercial operation Principles of Integrated Maritime Surveillance Systems is therefore essential to a variety of user groups ranging from port authorities to shipping companies and marine exchanges as well as civil governments and the military

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