

RADAR SYSTEM DESIGN and ANALYSIS



S A Hovannessian

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Michael Hoelscher



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Radar System Design and Analysis Shahen A. Hovannessian, 1984-01-01 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.

Radar System Analysis and Modeling David K. Barton, 2004-10-01 A thorough update to the Artech House classic *Modern Radar Systems Analysis*, this reference is a comprehensive and cohesive introduction to radar systems design and performance estimation. It offers you the knowledge you need to specify, evaluate, or apply radar technology in civilian or military systems. The book presents accurate detection range equations that let you realistically estimate radar performance in a variety of practical situations. With its clear, easy-to-understand language, you quickly learn the tradeoffs between choice of wavelength and radar performance, and see the inherent advantages and limitations associated with each radar band. You find modeling procedures to help you analyze enemy systems or evaluate radar integrated into new weapon systems. The book covers ECM and ECCM for both surveillance and tracking to help you estimate the effects of active and passive ECM, select hardware/software for reconnaissance or jamming, and plan the operation of EW systems. As radar systems evolve, this book provides the equations needed to calculate and evaluate the performance of the latest advances in radar technology.

Introduction to RF Equipment and System Design Pekka Eskelinen, 2004 An excellent resource for engineers and technicians alike, this practical design guide offers a comprehensive and easy-to-understand overview of the most important aspects and components of radio frequency equipment and systems. The book applies theoretical fundamentals to real-world issues, heavily relying on examples from recent design projects. Key discussions include system design, schemes, circuits, and components for system evaluations, and design RF measurement instrumentation, antennas, and associated hardware, and guidelines for purchasing test equipment. The book also serves as a valuable on-the-job training resource for sales engineers and a graduate-level text for courses in this area. Radar System Analysis, Design, and Simulation Eyung W. Kang, 2008
This book helps you master critical system analysis and design skills and shows you how to use digital computer simulation to

verify that an analysis is correct and that a design is optimal This comprehensive resource covers a wide range of essential topics from matrix vector and linear equations noise and clutter generation Filters FIR and IIR and fast Fourier transforms to ambiguity functions antennas target detection and the Kalman filter to the Monte Carlo method constant false alarm rate CFAR processing and moving target indicators MTI *Modern Radar Systems* Hamish Meikle, 2001 This one of a kind book features 536 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

Radar RF Circuit Design, Second Edition
 Nickolas Kingsley, Joseph R. Guerri, 2022-02-28 This new edition of a previous bestseller gives you practical techniques for optimizing RF and microwave circuits for applications in radar systems design with an emphasis on current and emerging technologies Completely updated with new material the book shows you how to design RF components for radar systems and how to choose appropriate materials and packaging methods It takes you through classic techniques to the state of the art and finally to emerging technologies You will learn How to design high frequency circuits for use in radar applications How to integrate components while avoiding higher level assembly issues and troubleshooting problems on the measurement bench How to properly simulate build assemble and test high frequency circuits How to debug issues with hardware on the bench How to connect microwave theory to practical circuit design Theory and practical information are provided while addressing topics ranging from heat removal to digital circuit integration The book serves as a teaching aid for classic techniques that are still relevant today It also demonstrates how these techniques are serving as the foundation for technologies to come You will be equipped to consider future needs and emerging enabling technologies and confidently think and design outside the box to ensure future needs are met The book also shows you how to incorporate modern design techniques often overlooked or underused and will help you to better understand the capabilities and limitations of today's technology and the emerging technologies that are on the horizon to mitigate those limitations This is a must have resource for system level radar designers who want to up their game in RF microwave component design It is also a great tool for RF microwave engineers tasked or interested in designing components for radar systems Students and new designers of radar components will also benefit and be well prepared to start designing immediately

Target Detection by Marine Radar
 John N. Briggs, 2004-12-03 Radar is a legal necessity for the safe navigation of merchant ships and within vessel traffic services is indispensable to the operation of major ports and harbours Target Detection by Marine Radar concentrates solely on civil marine operations and explains how marine surveillance radars detect their targets The book is fully illustrated and contains worked examples to help the reader understand the principles underlying radar operation and to quantify the

importance of factors such as the technical features of specific equipment the weather target reflection properties and the ability of the operator The precision with which targets are positioned on the radar screen and with which their progress is tracked or predicted depends on how definitely they have been detected therefore a whole chapter has been devoted to the issue of accuracy The various international regulations governing marine radar are examined a brief historical background is given to modern day practice and the book does with a discussion of the ways in which marine radar may develop to meet future challenges

Computer Simulation of Aerial Target Radar Scattering, Recognition, Detection, and Tracking

Yakov D. Shirman, 2002 Here s a ground breaking new book that provides you with the knowledge you need to perform effective computer simulation of scattering for the real targets and conditions of radio wave propagation By replacing field tests with the computer simulation methods presented in this unique resource you save time and money in the early stages of research and development Supplemented with 283 equations and 121 illustrations you get practical guidance in estimating the effect of various signatures of new radar with target recognition evaluating and comparing the effectiveness and complexity of recognition algorithms before they are actually introduced into radar formulating requirements to radar subsystems and evaluating their tolerances and predicting future radar performance What s more the book helps you perform initial simulation of the recognition algorithm in various conditions where the practical receiving of experimental data is restricted Other key discussions include the theory of target recognition results of studying various recognition methods and simulation in radar detection and tracking

Range-Doppler Radar Imaging and Motion Compensation ,

Principles of Modern Radar Missile Seekers Evgeny Markin, 2022-02-28 This book gives you an in depth look into the critical function of interference shielding for onboard radar of anti aircraft missile systems Intended for radar engineers and technicians specializing in anti aircraft defense the book reviews today s military and geo political threats helps you understand the functional needs of the various radar and anti missile systems to meet those threats and synthesizes considerations for devising practical and effective protection against interferences that affect the homing heads of anti aircraft guided missiles Three problematic interferences are presented and discussed in detail polarization interference interference to the sidelobe of onboard antennas and interference from two points in space including interference reflected from the earth water surface The book covers the basic principles of radiolocation including monopulse radars and gives insight into the fundamental functional units of anti aircraft missiles and surface to air missile systems The book presents guidance methods systems of direction finding problems on firing over the horizon and questions of accuracy and resolution all important for better addressing solutions of interference shielding You will learn how to estimate the stability of target auto tracking under conditions of cited interferences and better assess existing limitations on firing over the horizon by a long range anti aircraft system as well as hypersonic targets and satellites This is a unique and valuable resource for engineers and technicians who are involved in the design and development of anti aircraft guided missile systems with

special emphasis on interference immunity and protection It can also be used as a textbook in advanced radar technology coursework and seminars *An Introduction to Passive Radar, Second Edition* Hugh D. Griffiths, Christopher J.

Baker, 2022-04-30 This bestselling book now in its second edition introduces the basic principles of passive radar technology and provides a comprehensive overview of the recent developments and advances in this field It shows you how passive radar works how it differs from the active type and helps you understand the benefits and drawbacks of this novel technology The book gives you the knowledge you need to get a full understanding of this fascinating technology All chapters have been fully revised and updated and are written in a clear and accessible style New chapters have been added to cover advances in the technology that have already been built and demonstrated including systems on moving platforms aircraft and UAVs as well as advances in types of transmission notably single frequency broadcast transmissions and 5G and in processing techniques This book remains an important resource for engineers working in academic industry or government research laboratories academics teaching graduate level students and those working in the specification and procurement of radar systems who need to understand the performance and limitations of the technology **Fundamentals of Short-range FM Radar** Igor

V. Komarov, Sergey M. Smolskiy, 2003 Here s a unique new resource that offers you a solid understanding of the fundamental theory operation principles and applications of short range frequency modulated continuous wave FM CW radar You learn how to choose the structural scheme of short range FM radar and determine the optimal algorithm of useful signal processing necessary for ensuring the technical characteristic of radar Moreover this practical reference shows you how to ensure the minimum level of radar signal parasitic amplitude calculate modulation signal distortion and compensate for nonlinear distortion **Principles of Radar and Sonar Signal Processing** Chevalier François Le, 2002 **Radar and**

EW Modeling in MATLAB and Simulink Carlos A. Dávila, Glenn D. Hopkins, Gregory A. Showman, 2023-10-31 This resource covers basic concepts and modeling examples for the three pillars of EW Electronic Attack EA systems Electronic Protection EP techniques and Electronic Support ES It develops techniques for the modeling and simulation M S of modern radar and electronic warfare EW systems and reviews radar principles including the radar equation M S techniques are introduced and example models developed in MATLAB and Simulink are presented and discussed in detail These individual models are combined to create a full end to end engineering engagement simulation between a pulse Doppler radar and a target The radar target engagement model is extended to include jamming models and is used to illustrate the interaction between radar and jamming signals and the impact on radar detection and tracking In addition several classic EA techniques are introduced and modeled and the effects on radar performance are explored This book is a valuable resource for engineers scientists and managers who are involved in the design development or testing of radar and EW systems It provides a comprehensive overview of the M S techniques that are used in these systems and the book s many examples and case studies provide a solid foundation for understanding how these techniques can be applied in practice **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 *Multisensor Fusion and Integration for Intelligent Systems* Lee Suk-han, Hanseok Ko, Hernsoo Hahn, 2009-05-28 The eld of multi sensor fusion and integration is growing into signi cance as our society is in transition into ubiquitous computing environments with robotic services everywhere under ambient intelligence What surround us are to be the networks of sensors and actuators that monitor our environment health security and safety as well as the service robots intelligent vehicles and autonomous systems of ever heightened autonomy and dependability with integrated heterogeneous sensors and actuators The eld of multi sensor fusion and integration plays key role for making the above transition possible by providing fundamental theories and tools for implementation This volume is an edition of the papers selected from the 7th IEEE International Conference on Multi Sensor Integration and Fusion IEEE MFI 08 held in Seoul Korea August 20-22 2008 Only 32 papers out of the 122 papers accepted for IEEE MFI 08 were chosen and requested for revision and extension to be included in this volume The 32 contributions to this volume are organized into three parts Part I is dedicated to the Theories in Data and Information Fusion Part II to the Multi Sensor Fusion and Integration in Robotics and Vision and Part III to the Applications to Sensor Networks and Ubiquitous Computing Environments To help readers understand better a part summary is included in each part as an introduction The summaries of Parts I II and III are prepared respectively by Prof Hanseok Ko Prof Sukhan Lee and Prof Hernsoo Hahn **Radar Signal Processing and Adaptive Systems** Ramon Nitzberg, 1999 A valuable resource for radar engineers and managers of all levels this revised edition provides an introduction to the capabilities and limitations of radar as well as a detailed advanced study of key radar signal processing topics The book explains the concepts and theory of radar signal processing such as resolution ambiguities antennas waveforms the theory of detecting targets in noise and or clutter and tracking using data processing It also presents equations for the determination of maximum radar range in free space and as affected by multipath and the horizon **EW 101** David Adamy, 2001 This popular series of tutorials featured over a period of years in the Journal of Electronic Defense is now available in a single volume Organized into chapters with new introductory and supplementary material from the author you get clear concise and well illustrated examinations of critical

topics such as antenna parameters receiver sensitivity processing tasks and search strategies LPI signals jamming communication links and simulation The chapters define key terms and explain how and why particular technologies are relevant to electronic defense Detailed charts diagrams and formulas give you the practical knowledge you need to apply specific techniques in the field *Radar Resolution and Complex-image Analysis* August W. Rihaczek, Stephen J. Hershkowitz, 1996 Target identification and other modern day radar problems can't be solved by conventional radar technology but they can be solved with the ground breaking signal processing and analysis methods presented in this unique expertly authored book

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