



Radar Signal Analysis

Mark A. Richards



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Radar Signal Analysis and Processing Using MATLAB Bassem R. Mahafza, 2016-04-19 Offering radar related software for the analysis and design of radar waveform and signal processing Radar Signal Analysis and Processing Using MATLAB provides a comprehensive source of theoretical and practical information on radar signals signal analysis and radar signal processing with companion MATLAB code Aft

Handbook of Radar Signal Analysis Bassem R. Mahafza, Scott C. Winton, Atef Z. Elsherbeni, 2021-08-16 This new handbook on radar signal analysis adopts a deliberate and systematic approach It uses a clear and consistent level of delivery while maintaining strong and easy to follow mathematical details The emphasis of this book is on radar signal types and their relevant signal processing and not on radar systems hardware or components This handbook serves as a valuable reference to a wide range of audience More specifically college level students practicing radar engineers as well as casual readers of the subject are the intended target audience of the first few chapters of this book As the book chapters progress these grow in complexity and specificity Accordingly later chapters are intended for practicing engineers graduate college students and advanced readers Finally the last few chapters contain several special topics on radar systems that are both educational and scientifically entertaining to all readers The presentation of topics in this handbook takes the reader on a scientific journey whose major landmarks comprise the different radar subsystems and components In this context the chapters follow the radar signal along this journey from its birth to the end of its life Along the way the different relevant radar subsystems are analyzed and discussed in great detail The chapter contributors of this new handbook comprise experienced academia members and practicing radar engineers Their combined years of academic and real world experiences are in excess of 175 Together they bring a unique easy to follow mix of mathematical and practical presentations of the topics discussed in this book See the Chapter Contributors section to learn more about these individuals

Time-frequency Transforms for Radar Imaging and Signal Analysis Victor C. Chen, Hao Ling, 2002 This text explores more efficient ways to extract dispersive scattering features detect and extract weak signals in noise form clear radar images estimate parameters and perform motion compensation and detect and track moving targets in the synthetic aperture radar

Introduction to Radar Analysis Bassem R. Mahafza, 2017-11-23 Introduction to Radar Analysis Second Edition is a major revision of the popular textbook It is written within the context of communication theory as well as the theory of signals and noise By emphasizing principles and fundamentals the textbook serves as a vital source for students and engineers Part I bridges the gap between communication signal analysis and radar Topics include modulation techniques and associated Continuous Wave CW and pulsed radar systems Part II is devoted to radar signal processing and pulse compression techniques Part III presents special topics in radar systems including radar detection radar clutter target tracking phased arrays and Synthetic Aperture Radar SAR Many new exercise are included and the author provides comprehensive easy to follow mathematical derivations of all key equations and formulas The author has

worked extensively for the U S Army the U S Space and Missile Command and other military agencies This is not just a textbook for senior level and graduates students but a valuable tool for practicing radar engineers Features Authored by a leading industry radar professional Comprehensive up to date coverage of radar systems analysis issues Easy to follow mathematical derivations of all equations and formulas Numerous graphical plots and table format outputs One part of the book is dedicated to radar waveforms and radar signal processing *Radar Signal Analysis* William S. Burdic,1967

Electronic Intelligence, the Interception of Radar Signals Richard G. Wiley,1985 **Radar Systems Analysis and Design Using MATLAB** Bassem R. Mahafza,2022-03-28 The first edition of this ground breaking and widely used book introduced a comprehensive textbook on radar systems analysis and design providing hands on experience facilitated by its companion MATLAB software The book very quickly turned into a bestseller Based on feedback provided by several users and drawing from the author s own teaching experience the 4th edition adopts a new approach The presentation in this edition takes the reader on a scientific journey whose major landmarks comprise the different radar sub systems and components Along the way the different relevant radar subsystems are analyzed and discussed in great level of detail Understanding the radar signal types and their associated radar signal processing techniques are key to understating how radar systems function Each chapter provides the necessary mathematical and analytical coverage required for a sound understanding of radar theory Additionally dedicated MATLAB functions programs enhance the understanding of the theory and establish a means to perform radar system analysis and design trades The software provides users with numerous varieties of graphical outputs Additionally a complete set of MATLAB code that generates all plot and graphs found within the pages of this textbook are also available All companion MATLAB code can be downloaded from the book s web page The 4th Edition Takes advantage of the new features offered by MATLAB 2021 release Brings the text to a current state of the art Incorporates much of the feedback received from users using this book as a text and from practicing engineers accordingly several chapters have been rewritten Presents unique topics not found in other books Maintains a comprehensive and exhaustive presentation Restructures the presentation to be more convenient for course use Provides a post course reference for engineering students as they enter the field Offers a companion solutions manual for instructors The 4th edition will serve as a valuable tool to students and radar engineers by helping them better analyze and understand the many topics of radar systems This book is written primarily as a graduate level textbook although parts of it can be used as a senior level course A companion solutions manual has been developed for use by instructors *Radar Signals* Charles Cook,2012-12-02 *Radar Signals* An Introduction to Theory and Application introduces the reader to the basic theory and application of radar signals that are designated as large time bandwidth or pulse compression waveforms Topics covered include matched filtering and pulse compression optimum predetection processing the radar ambiguity function and the linear frequency modulation waveform and matched filter Parameter estimation and discrete coded waveforms are also discussed along with the effects of

distortion on matched filter signals This book is comprised of 14 chapters and begins with an overview of the concepts and techniques of pulse compression matched filtering with emphasis on coding source and decoding device The discussion then turns to the derivation of the matched filter properties in order to maximize the signal to noise ratio analysis of radar ambiguity function using the principle of stationary phase parameter estimation and the method of maximum likelihood and measurement accuracies of matched filter radar signals Waveform design criteria for multiple and dense target environments are also considered The final chapter describes a number of techniques for designing microwave dispersive delays This monograph will be a useful resource for graduate students and practicing engineers in the field of radar system engineering

Radar signal analysis using the ambiguity function S. D. Agyo, 2011 **Resolution Issues in Radar Signal Analysis** Hector A. Ochoa Gutierrez, 2003 Radar Signals Nadav Levanon, Eli Mozeson, 2004-09-07 A text and general reference on the design and analysis of radar signals As radar technology evolves to encompass a growing spectrum of applications in military aerospace automotive and other sectors innovations in digital signal processing have risen to meet the demand Presenting a long overdue up to date dedicated resource on radar signals the authors fill a critical gap in radar technology literature Radar Signals features in depth coverage of the most prevalent classical and modern radar signals used today as well as new signal concepts developed in recent years Inclusion of key MATLAB software codes throughout the book demonstrates how they dramatically simplify the process of describing and analyzing complex signals Topics covered include Matched filter and ambiguity function concepts Basic radar signals with both analytical and numerical analysis Frequency modulated and phase coded pulses Complete discussion of band limiting schemes Coherent LFM pulse trains the most popular radar signal Diversity in pulse trains including stepped frequency pulses Continuous wave signals Multicarrier phase coded signals Combining lucid explanation preferred signal tables MATLAB codes and problem sets in each chapter Radar Signals is an essential reference for professionals and a systematic tutorial for any seeking to broaden their knowledge base in this dynamic field ELINT Richard G. Wiley, 2006 Annotation In these times correctly and quickly identifying a stray electronic blip on a radar screen can have incalculable consequences Now more than ever radar electronic intelligence ELINT can be the first line of defense for the battlefield or the homeland Offering new insight into radar signal analysis this book ensures more reliable and timely gathering of electronic intelligence Combining and updating the author's two previous definitive books on ELINT this volume is the indispensable reference for every ELINT professional **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 **Fundamentals of Radar Signal Processing, Second Edition** Mark A. Richards, 2013-12-02 The most complete current guide to the signal processing techniques essential to advanced radar systems Fully updated and expanded Fundamentals of Radar Signal Processing Second Edition offers comprehensive coverage of the basic digital signal processing techniques and technologies on which virtually all modern radar systems rely including target and interference models matched filtering waveform design Doppler processing threshold detection and measurement accuracy The methods and interpretations of linear systems filtering sampling and Fourier analysis are used throughout to provide a unified tutorial approach End of chapter problems reinforce the material covered Developed over many years of academic and professional education this authoritative resource is ideal for graduate students as well as practicing engineers Fundamentals of Radar Signal Processing Second Edition covers Introduction to radar systems Signal models Pulsed radar data acquisition Radar waveforms Doppler processing Detection fundamentals Measurements and tracking Introduction to synthetic aperture imaging Introduction to beamforming and space time adaptive processing **Adaptive Radar Signal Processing** Simon Haykin, 2007-03-09 This collaborative work presents the results of over twenty years of pioneering research by Professor Simon Haykin and his colleagues dealing with the use of adaptive radar signal processing to account for the nonstationary nature of the environment These results have profound implications for defense related signal processing and remote sensing References are provided in each chapter guiding the reader to the original research on which this book is based

Fundamentals of Radar Signal Processing Mark A. Richards, 2005-07-15 Advances in DSP digital signal processing have radically altered the design and usage of radar systems making it essential for both working engineers as well as students to master DSP techniques This text which evolved from the author's own teaching offers a rigorous in depth introduction to today's complex radar DSP technologies Contents Introduction to Radar Systems Signal Models Sampling and Quantization of Pulsed Radar Signals Radar Waveforms Pulse Compression Waveforms Doppler Processing Detection Fundamentals Constant False Alarm Rate CFAR Detection Introduction to Synthetic Aperture Imaging **Radar Principles** Nadav Levanon, 1988-05-19 An advanced treatment of the main concepts of radar Systematic and organized it nicely balances readability with mathematical rigor Many techniques and examples have been chosen from the radar industry Rayleigh fluctuating targets are used as they yield simple expressions for the probability of detection and others for their pedagogical value Costas signals lead the coded radar signals because their ambiguity function can be intuitively deduced Ordered

statistics is covered in more depth than other CFAR techniques because its performance can be obtained analytically without resorting to simulation methods. Contains many exercises. An Instructor's Manual presenting detailed solutions to all the problems in the book is available from the Wiley editorial department.

Information-Theoretic Radar Signal Processing Yujie Gu, Yimin Zhang, 2024-12-17 A comprehensive introduction to the emerging research in information theoretic radar signal processing. Signal processing plays a pivotal role in radar systems to estimate, visualize, and leverage useful target information from noisy and distorted radar signals, harnessing their spatial characteristics, temporal features, and Doppler signatures. The burgeoning applications of information theory in radar signal processing provide a distinct perspective for tackling diverse challenges, including optimized waveform design, performance bound analysis, robust filtering, and target enumeration. *Information-Theoretic Radar Signal Processing* provides a comprehensive introduction to radar signal processing from an information theory perspective. Covering both fundamental principles and advanced techniques, the book facilitates the integration of information theory into radar signal processing, broadening the scope and improving the performance. Tailored to the needs of researchers and students alike, it serves as a valuable resource for comprehending the information theoretic aspects of radar signal processing. *Information-Theoretic Radar Signal Processing* readers will also find: Presentation of alternative hypotheses in adaptive radar detection; Detailed discussion of topics including resource management and power allocation; Direction of arrival (DOA) estimation and integrated sensing and communications (ISAC). *Information-Theoretic Radar Signal Processing* is ideal for graduate students, scientists, researchers, and engineers who work on the broad scope of radar and sonar applications, including target detection, estimation, imaging, tracking, and classification using radio frequency, ultrasonic, and acoustic methods.

Radar Signal Processing and Its Applications Jian Li, Robert Hummel, Petre Stoica, Edmund G. Zelnio, 2013-12-21 *Radar Signal Processing and Its Applications* brings together in one place important contributions and up-to-date research results in this fast-moving area. In twelve selected chapters, it describes the latest advances in architectures, design methods, and applications of radar signal processing. The contributors to this work were selected from the leading researchers and practitioners in the field. This work originally published as Volume 14, Numbers 1-3 of the journal *Multidimensional Systems and Signal Processing* will be valuable to anyone working or researching in the field of radar signal processing. It serves as an excellent reference providing insight into some of the most challenging issues being examined today.

Weather Radar Signal Analysis and Phase Coding Scheme to Recover Second Trip Echo Li Zhao, 1997

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