

Phillip E. Pace

DETECTING AND CLASSIFYING

LOW PROBABILITY OF INTERCEPT RADAR



Detecting And Classifying Low Probability Of Intercept Radar

Phillip E. Pace



Detecting And Classifying Low Probability Of Intercept Radar:

Detecting and Classifying Low Probability of Intercept Radar Phillip E. Pace, 2009 This comprehensive book presents LPI radar design essentials including ambiguity analysis of LPI waveforms FMCW radar and phase shift and frequency shift keying techniques Moreover you find details on new OTHR modulation schemes noise radar and spatial multiple input multiple output MIMO systems The book explores autonomous non linear classification signal processing algorithms for identifying LPI modulations It also demonstrates four intercept receiver signal processing techniques for LPI radar detection that helps you determine which time frequency bi frequency technique best suits any LPI modulation of interest Publisher Detecting and Classifying Low Probability of Intercept Radar Phillip E. Pace, 2004

Detecting and Classifying Low Probability of Intercept Radar Phillip E. Pace, 2008-12-31 The world's most authoritative resource on LPI emitter design and counter LPI techniques is now updated with the latest developments in the field complete with 360 task clarifying illustrations and ready to use MATLAB simulations for every LPI modulation in the book This revised and expanded second edition brings you to the cutting edge with new chapters on LPI radar design including over the horizon radar random noise radar and netted LPI radar You also discover critical LPI detection techniques parameter extraction signal processing techniques and anti radiation missile design strategies to counter LPI radar *Detecting and Classifying Low Probability of Intercept Radar* Phillip E. Pace, 2004 Pace Naval Postgraduate School presents the principles of radar design that enable a low probability of intercept LPI by a noncooperative intercept receiver The RF system uses complex pulse compression CW waveforms low side lobe antennas and power management techniques to render itself virtually undetectable The second part of the textbook investigates three algorithms for providing the intercept receiver with a processing gain that is close to the radar's matched filter processing gain and quantifies their performance with LPI waveforms The CD ROM contains MATLAB code for evaluating the complex LPI radar receiver interactions Annotation 2004 Book News Inc Portland OR booknews com 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 resources for sales engineers and a graduate level text for courses in this area

DETECTING AND CLASSIFYING LOW PROBABILITY OF INTERCEPT RADAR Phillip E. Pace, 2009

Electronic Warfare Signal Processing James Genova, 2018-01-31 Written by a prominent expert in the field this authoritative new resource presents anti ship missile ASM electronic protection EP techniques designed to enhance accurate target classification currently being developed by

personnel from the People's Republic of China and other nations This book provides a comprehensive introduction to modern electronic warfare EW in an era of information warfare IW It explores the capabilities of coherent radar and digital signal processing to rapidly and accurately classify targets Both naval and air electronic EW are covered in this resource This book gives insight into modern EW as an information battle and includes guidance on properly testing the effectiveness of electronic attack EA systems Pulsed Doppler radar basics including electromagnetic pulse dynamic range gain control and Doppler effects are presented A summary of the ASM sensor and EA model is provided and readers find coverage of the radar range equation burn through and the range Doppler map and imaging Special topic extended target classifications including false decoys and chaff are explained Special topic ASM EP waveforms and multiple receiver EP are also covered This book explores features of algorithms to optimize combining multiple parameters and systems Moreover it explains several algorithms proposed by PRC personnel to implement optimal two channel processing that mitigates cover noise EA

Small and Short-Range Radar Systems Gregory L. Charvat, 2014-04-04 Radar Expert Esteemed Author Gregory L Charvat on CNN and CBS Author Gregory L Charvat appeared on CNN on March 17 2014 to discuss whether Malaysia Airlines Flight 370 might have literally flown below the radar He appeared again on CNN on March 20 2014 to explain the basics of radar and he explored the hope and limitations of the technology i **Artificial Intelligence and Applications** Tripti Sharma, G. S. Tomar, Kameswara Musti, 2025-11-12 The papers in this book are high quality refereed papers presented at ICAIA 2025 the third International Conference on Artificial Intelligence and Applications held at Maharaja Surajmal Institute of Technology New Delhi in March 2025 This book presents new and innovative developments and applications in machine learning data mining neural networks computation optimisation technologies followed by research applications in signals language and classification prediction recommendations and systems This book is essential for researchers and practitioners in this field

Design of Multi-Frequency CW Radars M. Jankiraman, 2007 This book deals with the basic theory for design and analysis of Low Probability of Intercept LPI radar systems The design of one such multi frequency high resolution LPI radar PANDORA is covered This work represents the first time that the topic of multi frequency radars is discussed in such detail and it is based on research conducted by the author in The Netherlands The book provides the design tools needed for development design and analysis of high resolution radar systems for commercial as well as military applications Software written in MATLAB and C is provided to guide the reader in calculating radar parameters and in ambiguity function analysis Some radar simulation software is also included Signal Detection and Estimation Mourad Barkat, 2005 This newly revised edition of a classic Artech House book provides you with a comprehensive and current understanding of signal detection and estimation Featuring a wealth of new and expanded material the second edition introduces the concepts of adaptive CFAR detection and distributed CA CFAR detection The book provides complete explanations of the mathematics you need to fully master the material including probability theory distributions and random processes *Radar System Analysis and*

Modeling David Knox Barton, 2005 Accompanying disc includes an evaluation version of Mathcad11 which will expire 120 days after installation *Radar Handbook, Third Edition* Merrill I. Skolnik, 2008-02-17 The Industry Standard in Radar Technology_Now Updated with All the Advances and Trends of the Past 17 Years Turn to the Third Edition of Radar Handbook for state of the art coverage of the entire field of radar technology_from fundamentals to the newest applications With contributions by 30 world experts this resource examines methods for predicting radar range and explores radar subsystems such as receivers transmitters antennas data processing ECCM and pulse compression This radar handbook also explains the target cross section radar echoes from ground and sea and all radar systems including MTI AMTI pulse doppler and others Using SI units the Third Edition of Radar Handbook features Unsurpassed guidance on radar fundamentals theory and applications Hundreds of examples and illustrations New to this edition new chapters on radar digital signal processing radar in air traffic control ground penetrating radar fighter aircraft radar and civil marine radar 22 thoroughly revised chapters 17 new contributors Inside This Cutting Edge Radar Guide MTI Radar Pulse Doppler Radar Multifunctional Radar Systems for Fighter Aircraft Radar Receivers Automatic Detection Tracking and Sensor Integration Pulse Compression Radar Radar Transmitters Reflector Antennas Phased Array Radar Antennas Radar Cross Section Sea Clutter Ground Echo Space Based Radar Meteorological Radar HF Over the Horizon Radar Ground Penetrating Radar Civil Marine Radar Bistatic Radar Radar Digital Signal Processing And More *Classifying Low Probability of Intercept Radar Using Fuzzy Artmap* Pieter Frederick Potgieter, 2012 *The RF and Microwave Handbook* John Michael Golio, 2008 *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 *Archives of Acoustics Quarterly*, 2014 **Detection and Classification of Low Probability of Intercept Radar Signals Using Parallel Filter Arrays and Higher Order Statistics** Fernando L. Taboada, 2002-09 Low probability of intercept LPI is that property of an emitter that because of its low power wide bandwidth frequency variability or other design attributes makes it difficult to be detected or identified by means of passive intercept devices such as radar warning electronic support and electronic intelligence receivers In order to detect LPI radar waveforms new signal processing techniques are required This thesis first develops a MATLAB toolbox to generate important types of LPI waveforms based on frequency and phase modulation The power spectral density and the periodic ambiguity function are examined for each waveforms These signals are then used to test a novel signal processing technique that detects the waveforms parameters and classifies the intercepted signal in various degrees of noise The technique is based on the use of parallel filter sub band arrays and higher order statistics third order cumulant estimator

Each sub band signal is treated individually and is followed by the third order estimator in order to suppress any symmetrical noise that might be present. The significance of this technique is that it separates the LPI waveforms in small frequency bands providing a detailed time frequency description of the unknown signal. Finally the resulting output matrix is processed by a feature extraction routine to detect the waveforms parameters. Identification of the signal is based on the modulation parameters detected.

Book Review Index Cumulation Dana Ferguson, 2005-09 Book Review Index provides quick access to reviews of books periodicals books on tape and electronic media representing a wide range of popular academic and professional interests. The up to date coverage wide scope and inclusion of citations for both newly published and older materials make Book Review Index an exceptionally useful reference tool. More than 600 publications are indexed including journals and national general interest publications and newspapers. Book Review Index is available in a three issue subscription covering the current year or as an annual cumulation covering the past year.

Quantifying the Differences in Low Probability of Intercept Radar Waveforms Using Quadrature Mirror Filtering Pedro Jarpa, 2002-09-01 Low Probability of Intercept LPI radars are a class of radar systems that possess certain performance characteristics causing them to be nearly undetectable by most modern digital intercept receivers. Consequently LPI radar systems can operate undetected until the intercept receiver is much closer than the radar's target detector. The enemy is thus faced with a significant problem. To detect these types of radar new direct digital receivers that use sophisticated signal processing are required. This thesis describes a novel signal processing architecture and shows simulation results for a number of LPI waveforms. The LPI signal detection receiver is based on Quadrature Mirror Filter Bank QMFB Tree processing and orthogonal wavelet techniques to decompose the input waveform into components representing the signal energy in rectangular tiles in the time frequency plane. By analyzing the outputs at different layers of the tree it is possible to do feature extraction identify and classify the LPI waveform parameters and distinguish among the various LPI signal modulations. Waveforms used as input signals to the detection algorithm include Frequency Modulated Continuous Wave Polyphase Codes Costas Codes and Frequency Shift Keying Phase Shift Keying waveforms. The output matrices resulting from the most relevant layers of the QMFB tree processing are examined and the LPI modulation parameters are extracted under various signal to noise ratios.

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