



Phillip E. Pace

DETECTING AND CLASSIFYING

# LOW PROBABILITY OF INTERCEPT RADAR



# Detecting And Classifying Low Probability Of Intercept Radar

**Felipe Gonzalez Toro, Antonios  
Tsourdos**



## **Detecting And Classifying Low Probability Of Intercept 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

**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

**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 waveform. 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.

**The Micro-doppler Effect in Radar** Victor C. Chen, 2011 The Doppler Effect can be thought of as the change in frequency of a wave for an observer moving relative to the source of the wave. In radar, it is used to measure the velocity of detected objects. This highly practical resource provides thorough working knowledge of the micro-Doppler effect in radar, including its

principles applications and implementation with MATLAB codes The book presents code for simulating radar backscattering from targets with various motions generating micro Doppler signatures and analyzing the characteristics of targets In this title professionals will find detailed descriptions of the physics and mathematics of the Doppler and micro Doppler effect The book provides a wide range of clear examples including an oscillating pendulum a spinning and precession heavy top rotating rotor blades of a helicopter rotating wind turbine blades a person walking with swinging arms and legs a flying bird and movements of quadruped animals *Monopulse Radar Theory and Practice, Second Edition* Samuel M. Sherman, David Knox Barton, 2011 Monopulse is a type of radar that sends additional information in the signal in order to avoid problems caused by rapid changes in signal strength Monopulse is resistant to jamming which is one of the main reasons it is used in most radar systems today This updated and expanded edition of an Artech House classic offers you a current and comprehensive treatment of monopulse radar principles techniques and applications The Second Edition features two brand new chapters covering monopulse countermeasures and counter countermeasures and monopulse for airborne radar and homing seekers This essential volume categorizes and describes the various forms of monopulse radar and analyzes their capabilities and limitations The book also devotes considerable space to monopulse circuits and hardware components explaining their functions and performance This practical resource features numerous photographs and illustrations drawn from actual radar systems and components This book serves as a valuable reference for both experienced radar engineers and those new to the field

**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

[Techniques and System Design of Radar Active Jamming](#) Guangfu Tang, Yifeng Cai, Rongbing Gan, Yaodong Zhao, 2023-02-20 This book serves as a handbook for radar active jamming system designers in which design principles and methods are introduced in detail The book starts from the basic concept and then discusses requirements analysis type selection key indicators description and design methods of radar active jamming system and each subsystem step by step The content is expressed in an intelligible way and hence it is easy to follow even for beginners in this area Since the authors of this book are all experts and have designed plenty of real systems their book certainly helps new engineers deal with different kinds of problems encountered while designing a radar active jamming system

*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 antiaircraft 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

*Emitter Detection and Geolocation for Electronic Warfare* Nicholas O'Donoughue,2019-10-31 This comprehensive resource provides theoretical formulation for detecting and geolocating non cooperative emitters Implementation of geolocation algorithms are discussed as well as performance prediction of a hypothetical passive location system for systems analysis or vulnerability calculation Comparison of novel direction finding and geolocation algorithms to classical forms are also included Rooted in statistical signal processing and array processing theory this book also provides an overview of the application of novel detection and estimation algorithms to real world problems in EW The book is divided into three parts detection angle of arrival estimation and geolocation Each section begins with an introductory chapter covering the relevant signal processing theory either detection or estimation then provides a series of chapters covering specific methods to achieve the desired end product MATLAB code is provided to assist readers with relevant probability and statistics RF propagation atmospheric absorption and noise giving readers an understanding of the implementation of the algorithms in the book as well as developing new approaches to solving problems Packed with problem sets and examples this book strikes a balance between introductory texts and reference manuals making it useful for novice as well as advanced practitioners

**Information Technology** Yi Wan,Liangshan Shao,Lipo Wang,Jinguang Sun,2015-09-07 These proceedings of the symposium ISIT 2014 aim to be a platform for international exchange of the state of the art research and practice in information technology The contributions cover a wide variety of topics ranging from theoretical and analytical studies to various applications

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.

The Micro-Doppler Effect in Radar, Second Edition Victor C. Chen, 2019-02-28. Written by a prominent expert in the field, this updated and expanded second edition of an Artech House classic includes the most recent breakthroughs in vital sign and gait recognition via micro radar, as well as covering basic principles of Doppler effect and micro Doppler effect and describing basic applications of micro Doppler signatures in radar. The book presents detailed procedures about how to generate and analyze micro Doppler signatures from radar signals. Readers will learn how to model and animate an object such as a human spinning top, rotating rotor blades, with movement simulation of radar returns from the object and generating micro Doppler signature. The book includes coverage of the Google project Soli, which demonstrated the use of radar micro Doppler effect to sense and recognize micro motions of human hand gesture for controlling devices. It also discusses noncontact detection of human vital signs, micro motions of breathing and heart beating using radar. Another important application of radar micro Doppler sensors. Detailed MATLAB source codes for simulation of radar backscattering from targets with various motions are provided, along with source codes for generating micro Doppler signatures and analyzing characteristics of targets.

Non-Line-of-Sight Radar Brian Watson, Joseph R. Guerri, 2019-02-28. Non-Line-of-Sight Radar is the first book on the new and exciting area of detecting and tracking targets via radar multipath without direct line of sight (DLOS). This revolutionary capability is finding new applications in the tracking of objects in non-line-of-sight (NLOS) urban environments, including detection and tracking of UAVs. This book brings together for the first time all the essential underpinnings and techniques required to develop and field a viable NLOS radar. It presents many examples, including electromagnetic radiation propagation in urban NLOS environments, extracting building location and morphology from readily available terrain databases, predictive ray tracing techniques, and multi-target NLOS tracking. Readers will learn how to apply radar to urban tracking that was previously deemed impossible. The book shows how real-time physics calculations can be incorporated into the radar processor and how existing radar hardware can be adopted for non-line-of-sight radar use without major upgrades. Including results from both high-fidelity physics-based simulations and actual flight test data, this book establishes the efficacy of NLOS radar in practical applications.

Cognitive Radar: The Knowledge-Aided Fully

Adaptive Approach, Second Edition Joseph R. Guerri, 2020-06-30 This highly anticipated second edition of the bestselling Cognitive Radar The Knowledge Aided Fully Adaptive Approach the first book on the subject provides up to the minute advances in the field of cognitive radar CR Adaptive waveform methods are discussed in detail along with optimum resource allocation and radar scheduling Chronicling the field of cognitive radar CR this cutting edge resource provides an accessible introduction to the theory and applications of CR and presents a comprehensive overview of the latest developments in this emerging area It covers important breakthroughs in advanced radar systems and offers new and powerful methods for combating difficult clutter environments You find details on specific algorithmic and real time high performance embedded computing HPEC architectures This practical book is supported with numerous examples that clarify key topics and includes more than 370 equations

**Aerospace Navigation Systems** Alexander V. Nebylov, Joseph Watson, 2016-08-01 Compiled by leading authorities Aerospace Navigation Systems is a compendium of chapters that present modern aircraft and spacecraft navigation methods based on up to date inertial satellite map matching and other guidance techniques Ranging from the practical to the theoretical this book covers navigational applications over a wide range of aerospace vehicles including aircraft spacecraft and drones both remotely controlled and operating as autonomous vehicles It provides a comprehensive background of fundamental theory the utilisation of newly developed techniques incorporates the most complex and advanced types of technical innovation currently available and presents a vision for future developments Satellite Navigation Systems SNS long range navigation systems short range navigation systems and navigational displays are introduced and many other detailed topics include Radio Navigation Systems RNS Inertial Navigation Systems INS Homing Systems Map Matching and other correlated extremalsystems and both optimal and sub optimal filtering in integrated navigation systems

Engineering UAS Applications: Sensor Fusion, Machine Vision and Mission Management Jesús García, José M. Molina, Juan Pedro Llerena, Daniel Amigo, David Sánchez Pedroche, 2023-07-31 Unmanned aerial systems UAS have evolved rapidly in recent years thanks to advances in microelectromechanical components navigation perception and artificial intelligence allowing for a fast development of autonomy This book presents general approaches to develop test and evaluate critical functions such as navigation obstacle avoidance and perception and the capacity to improve performance in real and simulated scenarios It provides the practical knowledge to install analyze and evaluate UAS solutions working in real systems illustrates how to use and configure complete platforms and software tools and reviews the main enabling technologies applied to develop UAS possibilities and evaluation methodology You will get the tools you need to evaluate navigation and obstacle avoidance functions object detection and planning and landing alternatives in simulated conditions The book also provides helpful guidance on the integration of additional sensors video weather meteorological and communication networks to build IoT solutions This is an important book for practitioners and researchers interested in integrating advanced techniques in the fields of AI sensor fusion and mission management and anyone interest in applying and testing advanced

algorithms in UAS platforms      *Intelligent Systems* Aline Paes, Filipe A. N. Verri, 2025-01-29 The four volume set LNAI 15412 15415 constitutes the refereed proceedings of the 34th Brazilian Conference on Intelligent Systems BRACIS 2024 held in Bel m do Par Brazil during November 18 21 2024 The 116 full papers presented here were carefully reviewed and selected from 285 submissions They were organized in three key tracks 70 articles in the main track showcasing cutting edge AI methods and solid results 10 articles in the AI for Social Good track featuring innovative applications of AI for societal benefit using established methodologies and 36 articles in other AI applications presenting novel applications using established AI methods naturally considering the ethical aspects of the application      *Radio Wave Propagation Fundamentals, Second Edition* Artem Saakian, 2020-12-31 This completely updated second edition of an Artech House classic provides a thorough introduction to the basic principles of electromagnetic wave propagation of radio frequencies in real world conditions fully updated by including new achievements in theory and technology It serves as an invaluable daily reference for practitioners in the field and as a complete organized text on the subject This comprehensive resource covers a wide range of essential topics from the classification of radio waves electromagnetic wave theory and antennas for RF radio links to the impact of the earth surface on the propagation of ground waves atmospheric affects in radio wave propagation and radio wave reception The book explores the propagation of the ground radio waves namely the waves that propagate in vicinity of the earth s surface e g guided by that interface without involvement of any atmospheric effects Specifics of the high frequency HF radio propagation due to reflections from ionospheric layers is studied based on commonly used models of the ionospheric vertical profiles Scattering of the radio waves of UHF and higher frequency bands from the random variations of the tropospheric refraction index from tiny air turbulences are also considered by using the principles of statistical radio physics Analysis of propagation conditions on real propagation paths including analysis of the power budget of the VHF UHF link to assure its stability percentage of availability within observation time frame terrestrial broadcast mobile and satellite RF links are presented The engineering design of the cellular networks including LTE 4G 5G and upcoming higher generations is explored HF propagation predictions for extremely long range links design for commercial and military applications are explained Packed with examples and problems this book provides a theoretical background for astrophysical aeronomy and geophysical instrumentation design      [UAV-Based Remote Sensing Volume 2](#) Felipe Gonzalez Toro, Antonios Tsourdos, 2018-04-27 This book is a printed edition of the Special Issue UAV Based Remote Sensing that was published in *Sensors*      **The Electrical Engineering Handbook - Six Volume Set** Richard C. Dorf, 2018-12-14 In two editions spanning more than a decade The Electrical Engineering Handbook stands as the definitive reference to the multidisciplinary field of electrical engineering Our knowledge continues to grow and so does the Handbook For the third edition it has grown into a set of six books carefully focused on specialized areas or fields of study Each one represents a concise yet definitive collection of key concepts models and equations in its respective domain thoughtfully gathered for convenient access Combined they constitute the most



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