

Principles Of Modern Radar Basic Principles

Radar Equations for Modern Radar Modern Radar Systems Principles of Modern Radar Radar System Analysis and Modeling Principles of Modern Radar Aspects of Modern Radar Principles of Modern Radar Modern Radar Detection Theory Aspects of Modern Radar Principles of Modern Radar Modern Radar System Analysis Principles of Modern Radar Systems Photonic Aspects of Modern Radar Principles of Modern Radar Missile Seekers Signal Design for Modern Radar Systems Principles of Modern Radar Aspects of Modern Radar Modern Radar Modern Radar Techniques Specifying and Measuring Performance of Modern Radar Systems David Knox Barton Hamish Meikle Mark A. Richards David K. Barton Jerry Eaves Eli Brookner William L. Melvin Antonio De Maio Eli Brookner Mark A. Richards David Knox Barton Michel H. Carpentier Henry Zmuda Evgeny Markin Mohammad Alaee-Kerahroodi Mark A. Richards Eli Brookner Raymond S. Berkowitz M. J. B. Scanlan

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based on the classic radar range performance analysis from 1980 this practical volume extends that work to ensure applicability of radar equations to the design and analysis of modern radars this unique book helps you identify what information on the radar and its environment is

needed to predict detection range moreover it provides equations and data to improve the accuracy of range calculations you find detailed information on propagation effects methods of range calculation in environments that include clutter jamming and thermal noise as well as loss factors that reduce radar performance this invaluable book is supported with nearly 200 illustrations and over 430 equations

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

principles of modern radar advanced techniques is a professional reference for practicing engineers that provides a stepping stone to advanced practice with indepth discussions of the most commonly used advanced techniques for radar design it will also serve advanced radar academic and training courses with a complete set of problems for students as well as solutions for instructors this book provides an introduction to advanced radar methods available spanning the gamut of the most exciting radar capabilities from exotic waveforms to ultrahigh resolution and 3d imaging methods complex adaptive interference cancellation multitarget tracking in dense scenarios methods such as multipleinput multipleoutput mimo are covered all of this material is presented with the same careful balance of quantitative rigor and qualitative insight of principles of modern radar basic principles scitech 2010

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

this book principles of modern radar has as its genesis a georgia tech short course of the same title this short course has been presented annually at georgia tech since 1969 and a very comprehensive set of course notes has evolved during that seventeen year period the 1986 edition of these notes ran to 22 chapters and all of the authors involved except mr barrett were full time members of the georgia tech research faculty after considerable encouragement from various persons at the university and within the radar community we undertook the task of editing the course notes for formal publication the contents of the book that ensued tend to be practical in nature since each contributing author is a practicing engineer or scientist and each was selected to write on a topic embraced by his area s of expertise prime examples are chaps 2 5 and 10 which were authored by e f knott g w ewell and n c currie respectively each of these three researchers is recognized in the radar community as an expert in the technical area that his chapter addresses and each had already authored and published a major book on his subject several other contributing authors including dr bodnar mr bruder mr corriher dr reedy dr trebits and mr scheer also have major book publications to their credit

modern radar detection is the new frontier for advanced radar systems capable of operating in challenging scenarios with a plurality of interference sources both manmade and natural written by top researchers and recognized leaders in the field this is the first book to provide a comprehensive understanding of the current research trends in modern radar detection it updates readers with the latest radar signal processing algorithms now capable with high speed computer chips and sophisticated programs it also includes examples and applications from real systems this is essential reading for radar systems design engineers within aerospace companies military radar engineers and aerospace contractors consultants

principles of modern radar basic principles is a comprehensive text for courses in radar systems and technology a professional training textbook for formal in house courses and for new hires a reference for ongoing study following a radar short course and a self study and professional reference book

this book presents the basic principles analyses design formulas and characteristics of various fin line configurations you ll find summaries of hundreds of rigorous formulas as well as approximate closed form expressions which can be readily programmed to generate design data for any structure discover millimeter wave integrated circuits and components realized using the various fin line techniques presented in the text including directional couplers power dividers attenuators detectors modulators and oscillators an artech house bestseller

here s all the engineering information needed to integrate the fields of optics and electronics assembling a unique blend of expertise from industry academia and government photonic aspects of modern radar shows the applications of this technology both in the evolution of today s radar and in future systems

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

this book gives you a comprehensive overview of key optimization tools that can be used to design radar waveforms and adaptive signal processing strategies under practical constraints strategies such as power method like iterations coordinate descent and majorization minimization that help you to meet the more and more stressing sensing system requirements the book walks you through how radar waveform synthesis is obtained as the solution to a constrained optimization problem such as finite energy unimodularity or being constant modulus and finite or discrete phase potentially binary alphabet which are dictated by the practical limitations of the real systems several approaches in each of these broad frameworks are detailed and various applications of these optimization techniques are described focusing on a holistic approach rather than a problem specific approach the book shows you what you need to effectively formulate waveform design and understand the flexibility of the framework for adapting to your own specific needs you ll have full access to the tools and knowledge you need to design waveform with optimized correlation cross correlation properties for siso simo and mimo radars taking into account spectral constraints for cognitive rads as well as coexistence with communications and mitigate possible doppler and quantization errors and more the book also includes representative software codes that further help you generate the described solutions with its unique style of covering mathematical results along with their applications from diverse areas this is a much needed detailed handbook for industry researchers scientists and designers including medical marine defense and automotive companies it is also an excellent resource for advanced courses on radar signal processing

this two volume set provides comprehensive coverage of the fundamentals of modern radar technology

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