

Library

Reviews

Radar Range-Performance Analysis

L. V. Blake.

Artech House, Incorporated, Norwood, MA, 1986. 443 pp. Illustrated. £60.00.

This book, which is a comprehensive review of the ability of a radar to detect and track its target, is a re-publication of a well respected text. It has been appropriately updated and used as a text for teaching intensive short courses, so it includes clear descriptions of basic principles. As a separate publication, sets of problems and answers have been designed to aid the understanding of each chapter.

The first chapter contains a thorough discussion of the radar range equation and the significance of each of the parameters; this includes monostatic and bistatic radars and the effect of clutter and jamming. The chapter on the detection of signals was contributed by L. W. Brooks; this covers the automatic detection of pulse signals in receiver noise, and single and multiple pulse detection of static and fluctuating targets. The chapter on target cross section discusses the Rayleigh, resonant and optical scattering regimes and gives RCS formulas for basic shapes. There is also a discussion of methods for measurement of RCS, and their applicability to full scale dynamic measurements and sub-scale measurements in controlled environments. Subsequent chapters consider the effect of noise; propagation effects in the earth's

atmosphere; multipath effects; clutter, interference and signal processing; pulse-radar detection-range computation, and special types of radar.

Within its 443 pages the book presents a clear and accurate picture of the subject, and the order of presentation helps the reader rapidly to develop a grasp of the subject. The illustrations are clear and concise and copious references are made to the unclassified literature. The book should become a standard reference on radar performance.

DR. L. C. OLDFIELD

Gas Turbine Theory — Third edition

H. Cohen et al.

Longman Scientific & Technical, Harlow, 1987. 414 pp. Illustrated. £19.95.

This is the third edition of a book which was originally published in 1951 and has become regarded as a standard introduction to the subject.

The book is primarily intended for students to supplement their lecture course but would also serve as a useful introduction to practising engineers who have been engaged on other types of power plant and are now undertaking gas-turbine work.

The book deals with the basic physics and theory and does not extend to cover modern computational methods. In addi-

tion it does not attempt to cover control systems, mechanical design features or stressing.

This edition contains considerable updating compared with the previous edition to reflect the advances and developments which have taken place in the gas turbine industry. The section on shaft power cycles now includes gas and steam cycles, cogeneration schemes and closed cycles, the chapter on axial flow compressors has been enlarged and a section on radial flow turbines has been added to the chapter on turbines.

The introductory chapter summarises the various types of gas turbine and their application and the subsequent two chapters deal in more detail with the various shaft power cycles and cycles for aircraft propulsion respectively.

There are then chapters on centrifugal compressors, axial compressors, combustion systems and turbines which explain the basic principles, design methods and the interpretation of performance.

The subsequent chapters deal with overall engine performance prediction including off-design and transient performance.

There are finally some notes on various aspects of gas dynamics.

A volume of this size can obviously only deal with the basic principles and, as such, this latest edition is excellent. It will prove of great value to those for whom the authors intended it as an introduction to the subject of Gas Turbine Theory.

A. G. NEWTON

Additions

BOOKS

What is Engineering? K. Walton, Edwin Arnold (Publishers) Limited, London, 1987. 85 pp. Illustrated. £3.50. A basic introduction for young people to the world of engineering in its different forms, concluding with a brief outline of available training courses in higher education for students.

The Space Station: a Personal Journey. H. Mark. Duke University Press, London, 1987. 264 pp. Illustrated. £23.70. The author's inside view of the development of US space policy since the late 1970s, including the evolution of the Space Station and the Space Shuttle programmes.

Transonic Aerodynamics. J. D. Cole and L. P. Cook. North-Holland, Amsterdam, 1986. 473 pp. Illustrated. \$47.50. To be reviewed.

From the Flightdeck: NASA Space Shuttle. H. R. Siepmann and D. J. Shayler. Ian Allan Limited, London, 1987. 96 pp. Illustrated. £4.95. Adding to the wealth of literature on the space shuttle launch vehicle, this well-illustrated book reconstructs a flight aboard the shuttle, describing the operations and communications that are involved.

Radar Range Performance Analysis

Hamish Meikle



Radar Range Performance Analysis:

Radar Range-performance Analysis Lamont V. Blake,1986-01-01 *Radar Range-performance Analysis* Lamont V. Blake,1991 **Radar Equations for Modern Radar** David Knox Barton,2013 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 , 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 **Modern Radar Systems** Hamish Meikle,2008 This revised and updated edition to the popular Artech House book Modern Radar Systems offers complete and current coverage of the subject including new material on accuracy resolution and convolution and correlation The book features more than 540 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 Equations for Modern Radar* David Knox Barton,2013 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 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 book is supported with nearly 200 illustrations and over 430 equations Fundamental Principles of Radar Habibur Rahman,2019-05-15 The important and fascinating topics of radar enjoy an extensive audience in industry and government but deserve more attention in undergraduate education to better prepare graduating engineers to meet the demands of modern mankind Radar is not only one of the major applications of electronics and electromagnetic communications but it is also a mature scientific discipline with significant theoretical and mathematical foundations that warrant an intellectual and educational challenge Fundamental Principles of Radar is a textbook providing a first exposure to radar principles It provides a broad concept underlying the basic principle of operations of most existing radar systems and maintains a good balance of mathematical rigor to convince readers without losing interest The book provides an extensive exposition of the techniques currently being used for radar system design analysis and evaluation It presents a comprehensive set of radar principles including all features of modern radar applications with their underlying derivations using simple mathematics Coverage is limited to the main concepts of radar in order to present them in a systematic and organized fashion Topics are treated not as abstruse and esoteric to the point of incomprehensibility but the very complex and rich technology of radar is distilled into its fundamentals The author s emphasis is on clarity without sacrificing rigor and completeness thus making the book broad enough to satisfy a variety of backgrounds and interests Thorough documentation provides an unusual degree of completeness for a textbook at this level with interesting and sometimes thought provoking content to make the subject even more appealing Key Features Covers a wide range of topics in radar systems Includes examples and exercises to reinforce the concepts presented and explain their applications Provides self contained chapters useful for readers seeking selective topics Provides broad concepts underlying the basic principles of operations of most types of radars in use today Includes documentation to lead to further reading of interesting concepts and applications

Radar Systems Principles Harold R. Raemer,1996-10-30 In planning a radar system having the proper mathematical modeling of propagation effects clutter and target statistics is essential Radar Systems Principles provides a strong theoretical basis for the myriad of formulas and rules of thumb required for analysis conceptual design and performance evaluation of radar systems Mathematical derivations of formulas commonly used by radar engineers are presented with detailed discussions of the assumptions behind these expressions and their ranges of validity These principles are used in a wide range of radar applications Radar Systems Principles makes it easy to understand the steps in calculating various formulas and when and how these formulas are used A set of problems is provided for each chapter enabling you to check your progress in applying the principles discussed in each section of the text There are more than 170 figures illustrating key concepts Numerous references to well known books on radar for coverage of practical design issues and other specialized topics are given Radar Systems Principles is an ideal textbook for advanced undergraduates and first year graduate students

and also makes an excellent vehicle for self study by engineers wishing to enhance their understanding of radar principles and their implication in actual systems

Radar Evaluation Handbook David Knox Barton, Charles Emerson Cook, Paul Charles Hamilton, ANRO Engineering, Inc, 1991 This book describes the steps involved in the evaluation of radar design and performance without complicated math Easily understood by both engineers and non technical personnel it contains a comprehensive discussion of the complex factors involved in the radar design process

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

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 comprehensive authoritative resource available Circuits Signals and Speech and Image Processing presents all of the basic information related to electric circuits and components analysis of circuits the use of the Laplace transform as well as signal speech and image processing using filters and algorithms It also examines emerging areas such as text to speech synthesis real time processing and embedded signal processing Electronics Power Electronics Optoelectronics Microwaves Electromagnetics and Radar delves into the fields of electronics integrated circuits power electronics optoelectronics

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Low-Angle Radar Land Clutter J. Barrie Billingsley, 2002-04-01 A necessary reference for all radar engineers or analysts including many levels of managers advisors and decision makers in the U S and worldwide radar industry Directly useful in both military DOD and civilian FAA applications The result of 20 years of research at MIT Lincoln Lab this book is of the most significant technological consequence for the industry It actually solves the problem of low angle radar land clutter by showing the reader how to design and predict the performance of radars that operate in situations where land clutter prevalent Radar land clutter constitutes the unwanted radar echoes returned from the earth's surface that compete against and interfere with the desired echoes returned by targets such as aircraft and other moving and stationary targets The ability to accurately predict the effects of land clutter in surface radar has been an unsolved problem for many years This book is comprehensive in addressing the topic containing many interrelated results each important in its own right It unifies and integrates all the results so as to create a comprehensive innovative and unequalled work The results of this book directly enable the reader to predict land clutter effects in surface radar Modern military aircraft deliberately fly

low to hide their presence from radars that are also dealing with land clutter Depending on the terrain the performance of the radar varies greatly from very good to very poor This book helps radar engineers provide accurate assessments of ground clutter thus bringing their ability to detect and operate against low flying aircraft to a much higher and much more consistent level

The Electrical Engineering Handbook, Second Edition Richard C. Dorf, 1997-09-26 In 1993 the first edition of The Electrical Engineering Handbook set a new standard for breadth and depth of coverage in an engineering reference work Now this classic has been substantially revised and updated to include the latest information on all the important topics in electrical engineering today Every electrical engineer should have an opportunity to expand his expertise with this definitive guide In a single volume this handbook provides a complete reference to answer the questions encountered by practicing engineers in industry government or academia This well organized book is divided into 12 major sections that encompass the entire field of electrical engineering including circuits signal processing electronics electromagnetics electrical effects and devices and energy and the emerging trends in the fields of communications digital devices computer engineering systems and biomedical engineering A compendium of physical chemical material and mathematical data completes this comprehensive resource Every major topic is thoroughly covered and every important concept is defined described and illustrated Conceptually challenging but carefully explained articles are equally valuable to the practicing engineer researchers and students A distinguished advisory board and contributors including many of the leading authors professors and researchers in the field today assist noted author and professor Richard Dorf in offering complete coverage of this rapidly expanding field No other single volume available today offers this combination of broad coverage and depth of exploration of the topics The Electrical Engineering Handbook will be an invaluable resource for electrical engineers for years to come

Digital Communications with Emphasis on Data Modems Richard W. Middlestead, 2017-03-07 This book uses a practical approach in the application of theoretical concepts to digital communications in the design of software defined radio modems This book discusses the design implementation and performance verification of waveforms and algorithms appropriate for digital data modulation and demodulation in modern communication systems Using a building block approach the author provides an introductory to the advanced understanding of acquisition and data detection using source and executable simulation code to validate the communication system performance with respect to theory and design specifications The author focuses on theoretical analysis algorithm design firmware and software designs and subsystem and system testing This book treats system designs with a variety of channel characteristics from very low to optical frequencies This book offers system analysis and subsystem implementation options for acquisition and data detection appropriate to the channel conditions and system specifications and provides test methods for demonstrating system performance This book also Outlines fundamental system requirements and related analysis that must be established prior to a detailed subsystem design Includes many examples that highlight various analytical solutions

and case studies that characterize various system performance measures Discusses various aspects of atmospheric propagation using the spherical 4/3 effective earth radius model Examines Ionospheric propagation and uses the Rayleigh fading channel to evaluate link performance using several robust waveform modulations Contains end of chapter problems allowing the reader to further engage with the text Digital Communications with Emphasis on Data Modems is a great resource for communication system and digital signal processing engineers and students looking for in depth theory as well as practical implementations

Technical Abstract Bulletin Defense Documentation Center (U.S.),1964 Scientific and Technical Aerospace Reports ,1995 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database

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

Modern Personal Radio Systems Raymond Charles Vincent Macario,1996 A text providing insight into the fundamental problems and solutions found in modern personal communications service requirements coverage problems fundamental interference cellular architectures and signalling network management data and supplementary services and satellite services Also describes the approach of the GSM methodology to some of these problems although the same principles apply to DCS 1800 and other technologies This volume builds on and updates a 1991 IEE text Personal and Mobile Radio Systems by the same editor Annotation copyright by Book News Inc Portland OR

Informatics in Control Automation and Robotics Juan Andrade Cetto,Jean-Louis Ferrier,José Miguel Costa Dias Pereira,Joaquim Filipe,2008-05-30 The present book includes a set of selected papers from the third International Conference on Informatics in Control Automation and Robotics ICINCO 2006 held in Setúbal Portugal from 1 to 5 August 2006 sponsored by the Institute for Systems and Technologies of Information Control and Communication INSTICC The conference was organized in three simultaneous

tracks Intelligent Control Systems and Optimization Robotics and Automation and Systems Modeling Signal Processing and Control The book is based on the same structure Although ICINCO 2006 received 309 paper submissions from more than 50 different countries in all continents only 31 were accepted as full papers From those only 23 were selected for inclusion in this book based on the classifications provided by the Program Committee The selected papers also reflect the interdisciplinary nature of the conference The diversity of topics is an important feature of this conference enabling an overall perception of several important scientific and technological trends These high quality standards will be maintained and reinforced at ICINCO 2007 to be held in Angers France and in future editions of this conference

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Table of Contents Radar Range Performance Analysis

1. Understanding the eBook Radar Range Performance Analysis
 - The Rise of Digital Reading Radar Range Performance Analysis
 - Advantages of eBooks Over Traditional Books
2. Identifying Radar Range Performance Analysis
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Radar Range Performance Analysis
 - User-Friendly Interface
4. Exploring eBook Recommendations from Radar Range Performance Analysis

- Personalized Recommendations
- Radar Range Performance Analysis User Reviews and Ratings
- Radar Range Performance Analysis and Bestseller Lists
- 5. Accessing Radar Range Performance Analysis Free and Paid eBooks
 - Radar Range Performance Analysis Public Domain eBooks
 - Radar Range Performance Analysis eBook Subscription Services
 - Radar Range Performance Analysis Budget-Friendly Options
- 6. Navigating Radar Range Performance Analysis eBook Formats
 - ePub, PDF, MOBI, and More
 - Radar Range Performance Analysis Compatibility with Devices
 - Radar Range Performance Analysis Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Radar Range Performance Analysis
 - Highlighting and Note-Taking Radar Range Performance Analysis
 - Interactive Elements Radar Range Performance Analysis
- 8. Staying Engaged with Radar Range Performance Analysis
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Radar Range Performance Analysis
- 9. Balancing eBooks and Physical Books Radar Range Performance Analysis
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Radar Range Performance Analysis
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Radar Range Performance Analysis
 - Setting Reading Goals Radar Range Performance Analysis
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Radar Range Performance Analysis

- Fact-Checking eBook Content of Radar Range Performance Analysis
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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