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Based on the popular Artech House classic, *Digital Communication Systems Engineering with Software-Defined Radio*, this book provides a practical approach to quickly learning the software-defined radio (SDR) concepts needed for work in the field. This up-to-date volume guides readers on how to quickly prototype wireless designs using SDR for real-world testing and experimentation. This book explores advanced wireless communication techniques such as OFDM, LTE, WLA, and hardware targeting. Readers will gain an

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understanding of the core concepts behind wireless hardware, such as the radio frequency front-end, analog-to-digital and digital-to-analog converters, as well as various processing technologies. Moreover, this volume includes chapters on timing estimation, matched filtering, frame synchronization message decoding, and source coding. The orthogonal frequency division multiplexing is explained and details about HDL code generation and deployment are provided. The book concludes with coverage of the WLAN toolbox with OFDM beacon reception and the LTE toolbox with downlink reception. Multiple case studies are provided throughout the book. Both MATLAB and Simulink source code are included to assist readers with their projects in the field.

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Radar and ARPA Manual focuses on the theoretical and practical aspects of electronic navigation. The manual first discusses basic radar principles, including principles of range and bearing measurements and picture orientation and presentation. The text then looks at the operational principles of radar systems. Function of units; aerial, receiver, and display principles; transmitter principles; and siting of units on board ships are discussed. The book also describes target detection, Automatic Radar Plotting Aids (ARPA), and operational controls of radar systems, and then discusses radar plotting. Errors associated with the true-motion presentation; accuracy and errors of manual plotting; radar plotting aids; and regulations for preventing collisions at seas as applied to radar

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and ARPA are described. The book also underscores the accuracy and errors of ARPA. The test scenarios; errors generated in the radar installation; classification of ARPA error sources; and errors in displayed data and interpretation are explained. The manual is a good source of information for readers wanting to study electronic navigation.

This text for an undergraduate junior or senior course covers the most common elements necessary to design, execute, analyze, and document an engineering experiment or measurement system and to specify instrumentation for a production process. In addition to descriptions of common measurement systems, the text covers computerized data acquisition systems, common statistical techniques,

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experimental uncertainty analysis, and guidelines for planning and documenting experiments. The authors are affiliated with the school of engineering at San Francisco State University.

Annotation (c)2003 Book News, Inc., Portland, OR
(booknews.com)

This is a textbook for upper undergraduate and graduate courses on microwave engineering, written in a student-friendly manner with many diagrams and illustrations. It works towards developing a foundation for further study and research in the field. The book begins with a brief history of microwaves and introduction to core concepts of EM waves and wave guides. It covers equipment and concepts involved in the study and measurement of microwaves. The book also

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discusses microwave propagation in space, microwave antennae, and all aspects of RADAR. The book provides core pedagogy with chapter objectives, summaries, solved examples, and end-of-chapter exercises. The book also includes a bonus chapter which serves as a lab manual with 15 simple experiments detailed with proper circuits, precautions, sample readings, and quiz/viva questions for each experiment. This book will be useful to instructors and students alike.

The Method of Moments in Electromagnetics

Introduction to Communication Systems

Principles of Modern Radar

Optical Engineering

History of the U.S. Submarine Force

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Radar Principles, Solutions Manual Wiley-Interscience

Simulation is integral to the successful design of modern radar systems, and there is arguably no better software for this purpose than MATLAB. But software and the ability to use it does not guarantee success. One must also: Understand radar operations and design philosophy Know how to select the radar parameters to meet the design req
Publisher's Note: Products purchased from Third Party sellers are not guaranteed by the publisher for quality, authenticity, or access to any online entitlements included with the product. The Industry

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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.

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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

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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!

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. After an overview

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of radar systems operation and design, the book reviews elements of signal theory relevant to radar detection and radar signal processing, along with random variables and processes. The author then presents the unique characteristic of the matched filter and develops a general formula for the output of the matched filter that is valid for any waveform. He analyzes several analog waveforms, including the linear frequency modulation pulse and stepped frequency waveforms, as well as unmodulated pulse-train, binary, polyphase, and frequency codes. The book explores radar target detection and pulse integration, emphasizing the constant false alarm

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rate. It also covers the stretch processor, the moving target indicator, radar Doppler processing, beamforming, and adaptive array processing. Using configurable MATLAB code, this book demonstrates how to apply signal processing to radar applications. It includes many examples and problems to illustrate the practical application of the theory.

Small and Short-Range Radar Systems

Radar Principles

Introduction to Radar Analysis

Introduction to Engineering Experimentation

The important and fascinating topics of radar enjoy

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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

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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

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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

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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 Developed from the author's graduate-level courses, the first edition of this book filled the need for a comprehensive, self-contained, and hands-on treatment of radar systems analysis and design. It quickly became a bestseller and was widely adopted by many professors. The second edition built on this

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successful format by rearranging and updating
Market_Desc: · Electrical Engineers, Graduate and Senior Level Students studying Radar Principles; Introduction to Radar; Radar Design Principles, Radar Systems Special Features: · It is the most comprehensive summary of the existing literature available on the topic· Engineers solve problems Peebles gives radar engineers all the mathematical details they need in order to understand and apply the underlying principals of radar-the Where from and Why that is missing in other radar books. About The Book: This book presents a comprehensive

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coverage and summary of the literature on radar.

The author is well known and has produced a number of well received textbooks. Peebles offers a more mathematical treatment and provides many problems. This book is designed to be the basis for learning radar principles through self study.

Orbital Mechanics for Engineering Students, Second Edition, provides an introduction to the basic concepts of space mechanics. These include vector kinematics in three dimensions; Newton's laws of motion and gravitation; relative motion; the vector-based solution of the classical two-body problem;

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derivation of Kepler's equations; orbits in three dimensions; preliminary orbit determination; and orbital maneuvers. The book also covers relative motion and the two-impulse rendezvous problem; interplanetary mission design using patched conics; rigid-body dynamics used to characterize the attitude of a space vehicle; satellite attitude dynamics; and the characteristics and design of multi-stage launch vehicles. Each chapter begins with an outline of key concepts and concludes with problems that are based on the material covered. This text is written for undergraduates who are studying orbital mechanics

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for the first time and have completed courses in physics, dynamics, and mathematics, including differential equations and applied linear algebra. Graduate students, researchers, and experienced practitioners will also find useful review materials in the book. NEW: Reorganized and improved discussions of coordinate systems, new discussion on perturbations and quaternions NEW: Increased coverage of attitude dynamics, including new Matlab algorithms and examples in chapter 10 New examples and homework problems

Basic Principles

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With Laboratory Manual

Introduction to Wireless Systems

Introduction to the Physics and Techniques of Remote Sensing

A Friendly Introduction for Electrical and Computer Engineers

Dr. John Milan, radar consultant; formerly 36 years with ITT Gilfillan, IEEE AESS Radar Systems Panel

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The Radar Navigation and Maneuvering Board Manual (Pub 1310) contains, in a single volume, information on the fundamentals of shipboard radar,

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radar operation, collision avoidance, navigation by radar, and a description of vessel traffic systems in US waters. Additionally, the publication provides a quick reference to specific relative motion problem solutions including both textual and graphic explanations.

The Method of Moments in Electromagnetics, Third Edition details the numerical solution of electromagnetic integral equations via the Method of Moments (MoM). Previous editions focused on the solution of radiation and scattering problems involving conducting, dielectric, and composite

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objects. This new edition adds a significant amount of material on new, state-of-the art compressive techniques. Included are new chapters on the Adaptive Cross Approximation (ACA) and Multi-Level Adaptive Cross Approximation (MLACA), advanced algorithms that permit a direct solution of the MoM linear system via LU decomposition in compressed form. Significant attention is paid to parallel software implementation of these methods on traditional central processing units (CPUs) as well as new, high performance graphics processing units (GPUs). Existing material on the Fast Multipole

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Method (FMM) and Multi-Level Fast Multipole Algorithm (MLFMA) is also updated, blending in elements of the ACA algorithm to further reduce their memory demands. The Method of Moments in Electromagnetics is intended for students, researchers, and industry experts working in the area of computational electromagnetics (CEM) and the MoM. Providing a bridge between theory and software implementation, the book incorporates significant background material, while presenting practical, nuts-and-bolts implementation details. It first derives a generalized set of surface integral

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equations used to treat electromagnetic radiation and scattering problems, for objects comprising conducting and dielectric regions. Subsequent chapters apply these integral equations for progressively more difficult problems such as thin wires, bodies of revolution, and two- and three-dimensional bodies. Radiation and scattering problems of many different types are considered, with numerical results compared against analytical theory as well as measurements.

Radar Expert, Esteemed Author Gregory L. Charvat
on CNN and CBS
Author Gregory L. Charvat

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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

Radar Navigation and Maneuvering Board Manual
Radar Systems Analysis and Design Using MATLAB
Books in Print Supplement
Orbital Mechanics for Engineering Students
1963 Ed

The science and engineering of remote sensing--theory and

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*applications The Second Edition of this authoritative book offers readers the essential science and engineering foundation needed to understand remote sensing and apply it in real-world situations. Thoroughly updated to reflect the tremendous technological leaps made since the publication of the first edition, this book covers the gamut of knowledge and skills needed to work in this dynamic field, including: * Physics involved in wave-matter interaction, the building blocks for interpreting data * Techniques used to collect data * Remote sensing applications*

The authors have carefully structured and organized the book to introduce readers to the basics, and then move on to more advanced applications. Following an introduction, Chapter 2 sets forth the basic properties of electromagnetic waves and their

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interactions with matter. Chapters 3 through 7 cover the use of remote sensing in solid surface studies, including oceans. Each chapter covers one major part of the electromagnetic spectrum (e.g., visible/near infrared, thermal infrared, passive microwave, and active microwave). Chapters 8 through 12 then cover remote sensing in the study of atmospheres and ionospheres. Each chapter first presents the basic interaction mechanism, followed by techniques to acquire, measure, and study the information, or waves, emanating from the medium under investigation. In most cases, a specific advanced sensor is used for illustration. The book is generously illustrated with fifty percent new figures. Numerous illustrations are reproduced in a separate section of color plates. Examples of data acquired from spaceborne sensors

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are included throughout. Finally, a set of exercises, along with a solutions manual, is provided. This book is based on an upper-level undergraduate and first-year graduate course taught by the authors at the California Institute of Technology. Because of the multidisciplinary nature of the field and its applications, it is appropriate for students in electrical engineering, applied physics, geology, planetary science, astronomy, and aeronautics. It is also recommended for any engineer or scientist interested in working in this exciting field.

Provides necessary training in the field of mobile communications.

Features Explanations of practical communication systems presented in the context of theory. Over 300 excellent illustrations

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help students visualize difficult concepts and demonstrate practical applications. Over 120 worked-out examples promote mastery of new concepts, plus over 130 drill problems with answers extend these principles. A wide variety of problems, all new to this edition -- including realistic applications, computer-based problems, and design problems. Coverage of current topics of interest, such as fiber optics, spread spectrum systems and Integrated Digital Services Networks.

An engaging writing style and a strong focus on the physics make this graduate-level textbook a must-have for electromagnetism students.

Radar Engineering

Radar Signal Analysis and Processing Using MATLAB

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Fundamentals of Radar Signal Processing

The Journal of the Society of Photo-optical Instrumentation Engineers

Modern Electrodynamics

Learn how to use R to turn raw data into insight, knowledge, and understanding. This book introduces you to R, RStudio, and the tidyverse, a collection of R packages designed to work together to make data science fast, fluent, and fun. Suitable for readers with no previous programming

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experience, R for Data Science is designed to get you doing data science as quickly as possible. Authors Hadley Wickham and Garrett Grolemund guide you through the steps of importing, wrangling, exploring, and modeling your data and communicating the results. You'll get a complete, big-picture understanding of the data science cycle, along with basic tools you need to manage the details. Each section of the book is paired with exercises to

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help you practice what you've learned along the way. You'll learn how to:

- Wrangle—transform your datasets into a form convenient for analysis*
- Program—learn powerful R tools for solving data problems with greater clarity and ease*
- Explore—examine your data, generate hypotheses, and quickly test them*
- Model—provide a low-dimensional summary that captures true "signals" in your dataset*
- Communicate—learn R Markdown for*

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integrating prose, code, and results
Since the publication of the second edition of "Introduction to Radar Systems," there has been continual development of new radar capabilities and continual improvements to the technology and practice of radar. This growth has necessitated the addition and updating of the following topics for the third edition: digital technology, automatic detection and tracking, doppler technology, airborne

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radar, and target recognition. The topic coverage is one of the great strengths of the text. In addition to a thorough revision of topics, and deletion of obsolete material, the author has added end-of-chapter problems to enhance the "teachability" of this classic book in the classroom, as well as for self-study for practicing engineers.

This book contains the applications of radars, fundamentals and advanced

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concepts of CW, CW Doppler, FMCW, Pulsed doppler, MTI, MST and phased array radars etc. It also includes effect of different parameters on radar operation, various losses in radar systems, radar transmitters, radar receivers, navigational aids and radar antennas. Key features : Nine chapters exclusively suitable for one semester course in radar engineering. More than 100 solved problems. More than 1000 objective questions with answers. More

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than 600 multiple choice questions with answers. Five model question papers. Logical and self-understandable system description.

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

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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

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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-

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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.

Import, Tidy, Transform, Visualize, and Model Data

*The Publishers' Trade List Annual
Software-Defined Radio for Engineers
Air Force Manual*

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Radar Principles, Solutions Manual

This comprehensive resource provides readers with the tools necessary to perform analysis of various waveforms for use in radar systems. It provides information about how to produce synthetic aperture (SAR) images by giving a tomographic formulation and implementation for SAR imaging. Tracking filter fundamentals, and each parameter associated with the filter and how each affects tracking performance are also presented. Various radar cross section measurement techniques are covered, along with waveform selection analysis through the

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study of the ambiguity function for each particular waveform from simple linear frequency modulation (LFM) waveforms to more complicated coded waveforms. The text includes the Python tool suite, which allows the reader to analyze and predict radar performance for various scenarios and applications. Also provided are MATLAB® scripts corresponding to the Python tools. The software includes a user-friendly graphical user interface (GUI) that provides visualizations of the concepts being covered. Users have full access to both the Python and MATLAB source code to modify for their

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application. With examples using the tool suite are given at the end of each chapter, this text gives readers a clear understanding of how important target scattering is in areas of target detection, target tracking, pulse integration, and target discrimination. Modern Control Systems, 12e, is ideal for an introductory undergraduate course in control systems for engineering students. Written to be equally useful for all engineering disciplines, this text is organized around the concept of control systems theory as it has been developed in the frequency and time domains. It provides coverage of classical

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control, employing root locus design, frequency and response design using Bode and Nyquist plots. It also covers modern control methods based on state variable models including pole placement design techniques with full-state feedback controllers and full-state observers. Many examples throughout give students ample opportunity to apply the theory to the design and analysis of control systems. Incorporates computer-aided design and analysis using MATLAB and LabVIEW MathScript.

This is the eBook of the printed book and may not include any media, website access codes,

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or print supplements that may come packaged with the bound book. For senior-level or first-year graduate-level courses in control analysis and design, and related courses within engineering, science, and management. Feedback Control of Dynamic Systems, Sixth Edition is perfect for practicing control engineers who wish to maintain their skills. This revision of a top-selling textbook on feedback control with the associated web site, FPE6e.com, provides greater instructor flexibility and student readability. Chapter 4 on A First Analysis of Feedback has been substantially rewritten to present the

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material in a more logical and effective manner. A new case study on biological control introduces an important new area to the students, and each chapter now includes a historical perspective to illustrate the origins of the field. As in earlier editions, the book has been updated so that solutions are based on the latest versions of MATLAB and SIMULINK. Finally, some of the more exotic topics have been moved to the web site.

This textbook offers a comprehensive introduction to Machine Learning techniques and algorithms. This Third Edition covers

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newer approaches that have become highly topical, including deep learning, and auto-encoding, introductory information about temporal learning and hidden Markov models, and a much more detailed treatment of reinforcement learning. The book is written in an easy-to-understand manner with many examples and pictures, and with a lot of practical advice and discussions of simple applications. The main topics include Bayesian classifiers, nearest-neighbor classifiers, linear and polynomial classifiers, decision trees, rule-induction programs, artificial neural networks, support

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vector machines, boosting algorithms, unsupervised learning (including Kohonen networks and auto-encoding), deep learning, reinforcement learning, temporal learning (including long short-term memory), hidden Markov models, and the genetic algorithm. Special attention is devoted to performance evaluation, statistical assessment, and to many practical issues ranging from feature selection and feature construction to bias, context, multi-label domains, and the problem of imbalanced classes.

Radar and ARPA Manual

Radar and Laser Cross Section Engineering

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R for Data Science

Introduction to Radar Using Python and MATLAB

Steel Boats, Iron Men

There have been many new developments in the ten years since the first edition of Radar and Laser Cross Section Engineering was published. Stealth technology is now an important consideration in the design of all types of platforms. The second edition includes a more extensive introduction that covers the important aspects of stealth technology and the unique tradeoffs involved in stealth design. Prediction, reduction, and measurement of electromagnetic scattering from complex three-dimensional targets remains the primary emphasis of this text, developed by the author from courses taught at the Naval Postgraduate School. New topics on computational methods like the finite element method and the

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finite integration technique are covered, as well as new areas in the application of radar absorbing material and artificial metamaterials. Matlab [registered] software, homework problems, and a solution manual (available to instructors) supplement the text. Written as an instructional text, this book is recommended for upper-level undergraduate and graduate students. introduction to the physics and mathematics of radar cross section in order to better understand the interdisciplinary aspects of stealth. Matlab is a registered trademark of The MathWorks, Inc.

This text introduces engineering students to probability theory and stochastic processes. Along with thorough mathematical development of the subject, the book presents intuitive explanations of key points in order to give students the insights they need to apply math to practical engineering problems. The first seven

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chapters contain the core material that is essential to any introductory course. In one-semester undergraduate courses, instructors can select material from the remaining chapters to meet their individual goals. Graduate courses can cover all chapters in one semester.

*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 **

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*Constant False Alarm Rate (CFAR) Detection * Introduction to Synthetic Aperture Imaging*

A comprehensive introduction to radar principles This volume fills a need in industry and universities for a comprehensive introductory text on radar principles. Well-organized and pedagogically driven, this book focuses on basic and optimum methods of realizing radar operations, covers modern applications, and provides a detailed, sophisticated mathematical treatment. Author Peyton Z. Peebles, Jr., draws on an extensive review of existing radar literature to present a selection of the most fundamental topics. He clearly explains general principles, such as wave propagation and signal theory, before advancing to more complex topics involving aspects of measurement and tracking. The last chapter provides a self-contained treatment of digital signal

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*processing, which can be explored independently. Ample teaching and self-study help is incorporated throughout, including: * Numerous worked-out examples illustrating radar theory * Many end-of-chapter problems * Hundreds of illustrations, including system block diagrams, demonstrating how radar functions are achieved * Appended review material and useful mathematical formulas * An extensive bibliography and references. *An Instructor's Manual presenting detailed solutions to all the problems in the book is available from the Wiley editorial department. Radar Principles is destined to become the standard text on radar for graduate and senior-level courses in electrical engineering departments as well as industrial courses. It is also an excellent reference for engineers who are typically required to learn radar principles on the job, and for anyone working in radar-*

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related industries as well as in aerospace and naval research.

Aviation Fire Control Technician 3 & 2

An Introduction to Machine Learning

Feedback Control of Dynamic Systems

MATLAB Simulations for Radar Systems Design

Fundamental Principles of Radar