

Circuits Ulaby 2nd Edition

Polarization in Electromagnetic Systems, Second Edition Measurement Systems and Sensors, Second Edition Introduction to Remote Sensing, Second Edition Principles of Biomedical Engineering, Second Edition Advances in Passive Microwave Remote Sensing of Oceans Radio Engineering for Wireless Communication and Sensor Applications Principles of Synthetic Aperture Radar Imaging Mathematical Foundations for Linear Circuits and Systems in Engineering Electromagnetic Fields The Electrical Engineering Handbook, Second Edition Basic Radar Analysis, Second Edition Integrated Approach to Environmental Data Management Systems Radar Systems Principles WAVE PROPAGATION AND ANTENNA ENGINEERING Practical Electromagnetics Signal and Image Processing for Remote Sensing, Second Edition Polarimetric SAR Imaging Basics of Geomatics Applications of Remote Sensing to Agrometeorology Electric Machines Warren L. Stutzman Waldemar Nawrocki Arthur P. Cracknell Sundararajan Madihally Victor Raizer Antti V. Räsänen Kun-Shan Chen John J. Shynk Jean G. Van Bladel Richard C. Dorf Mervin C. Budge Nilgun B. Harmanciogamalu Harold R. Raemer KUMAR, SANJAY Devendra K. Misra C.H. Chen Yoshio Yamaguchi Mario A. Gomasasca F. Toselli Dionysios Aliprantis

Polarization in Electromagnetic Systems, Second Edition Measurement Systems and Sensors, Second Edition Introduction to Remote Sensing, Second Edition Principles of Biomedical Engineering, Second Edition Advances in Passive Microwave Remote Sensing of Oceans Radio Engineering for Wireless Communication and Sensor Applications Principles of Synthetic Aperture Radar Imaging Mathematical Foundations for Linear Circuits and Systems in Engineering Electromagnetic Fields The Electrical Engineering Handbook, Second Edition Basic Radar Analysis, Second Edition Integrated Approach to Environmental Data Management Systems Radar Systems Principles WAVE PROPAGATION AND ANTENNA ENGINEERING Practical Electromagnetics Signal and Image Processing for Remote Sensing, Second Edition Polarimetric SAR Imaging Basics of Geomatics Applications of Remote Sensing to Agrometeorology Electric Machines *Warren L. Stutzman Waldemar Nawrocki Arthur P. Cracknell Sundararajan Madihally Victor Raizer Antti V. Räsänen Kun-Shan Chen John J. Shynk Jean G. Van Bladel Richard C. Dorf Mervin C. Budge Nilgun B. Harmanciogamalu Harold R. Raemer KUMAR, SANJAY Devendra K. Misra C.H. Chen Yoshio Yamaguchi Mario A. Gomasasca F. Toselli Dionysios Aliprantis*

this completely revised and expanded edition of an artech house classic polarization in electromagnetic systems presents the principles of polarization as applied to electromagnetic systems this edition emphasizes the concepts needed for functional aspects of systems calculations and device evaluation readers find up to date coverage of applications in wireless communications the fundamentals of polarization are explained

including the principles of wave polarization along with their mathematical representations this book explores polarized partially polarized waves and unpolarized waves the second part of the book addresses applications of polarization to practical systems antenna polarization is covered in detail including omnidirectional directional and broadband antennas with emphasis on antennas for generating linear and circular polarization for each antenna type this book provides detailed coverage of wave interaction with an antenna and dual polarized systems additional topics covered in this edition include propagation through depolarizing media polarization in wireless communication systems including polarization diversity and polarization measurements this hands on resource provides a clear exposition on the understanding of polarization principles and evaluation of the performance of electromagnetic systems

this thoroughly updated and expanded second edition is an authoritative resource on industrial measurement systems and sensors with particular attention given to temperature stress pressure acceleration and liquid flow sensors this edition includes new and expanded chapters on wireless measuring systems and measurement control and diagnostics systems in cars moreover the book introduces new cost effective measurement technology utilizing servers and lan computer networks a topic not covered in any other resource coverage of updated wireless measurement systems and wireless gsm lte interfacing make this book unique providing in depth practical knowledge professionals learn how to connect an instrument to a computer or tablet while reducing the time for collecting and processing measurement data this hands on reference presents digital temperature sensors demonstrating how to design a monitoring system with multipoint measurements from computer based measuring systems electrical thermometers and pressure sensors to conditioners crate measuring systems and virtual instruments this comprehensive title offers engineers the details they need for their work in the field

providing a full introduction to remote sensing for all environmental scientists this wide ranging and authoritative text assumes no prior knowledge of remote sensing yet covers the field in sufficient depth to be suitable also as a research manual

this updated edition of an artech house classic introduces readers to the importance of engineering in medicine bioelectrical phenomena principles of mass and momentum transport to the analysis of physiological systems the importance of mechanical analysis in biological tissues organs and biomaterial selection are discussed in detail readers learn about the concepts of using living cells in various therapeutics and diagnostics compartmental modeling and biomedical instrumentation the book explores fluid mechanics strength of materials statics and dynamics basic thermodynamics electrical circuits and material science a significant number of numerical problems have been generated using data from recent literature and are given as examples as well as exercise problems these problems provide an opportunity for comprehensive understanding of the basic concepts cutting edge technologies and emerging challenges describing the role of engineering in medicine today this comprehensive volume covers a wide range of the most important topics in this burgeoning field moreover you find a thorough treatment of the concept of using living cells in various therapeutics and diagnostics structured as a complete text for students with some engineering background the book also makes a valuable reference for professionals new to the bioengineering field this authoritative textbook features numerous exercises and problems in each chapter to

help ensure a solid understanding of the material

this book demonstrates the capabilities of passive microwave technique for enhanced observations of ocean features including the detection of sub surface events and or disturbances while laying out the benefits and boundaries of these methods it represents not only an introduction and complete description of the main principles of ocean microwave radiometry and imagery but also provides guidance for further experimental studies furthermore it expands the analysis of remote sensing methods models and techniques and focuses on a high resolution multiband imaging observation concept such an advanced approach provides readers with a new level of geophysical information and data acquisition granting the opportunity to improve their expertise on advanced microwave technology now an indispensable tool for diagnostics of ocean phenomena and disturbances

covering a wide range of application areas from wireless communications and navigation to sensors and radar this practical resource offers you the first comprehensive multidisciplinary overview of radio engineering you learn important techniques to help you with the generation control detection and utilization of radio waves and find detailed guidance in radio link amplifier and antenna design the book approaches relevant problems from both electromagnetic theory based on maxwell's equations and circuit theory based on kirchhoff's and ohm's laws including brief introductions to each theory

principles of synthetic aperture radar imaging a system simulation approach demonstrates the use of image simulation for sar it covers the various applications of sar including feature extraction target classification and change detection provides a complete understanding of sar principles and illustrates the complete chain of a sar operation

extensive coverage of mathematical techniques used in engineering with an emphasis on applications in linear circuits and systems mathematical foundations for linear circuits and systems in engineering provides an integrated approach to learning the necessary mathematics specifically used to describe and analyze linear circuits and systems the chapters develop and examine several mathematical models consisting of one or more equations used in engineering to represent various physical systems the techniques are discussed in depth so that the reader has a better understanding of how and why these methods work specific topics covered include complex variables linear equations and matrices various types of signals solutions of differential equations convolution filter designs and the widely used laplace and fourier transforms the book also presents a discussion of some mechanical systems that mathematically exhibit the same dynamic properties as electrical circuits extensive summaries of important functions and their transforms set theory series expansions various identities and the lambert w function are provided in the appendices the book has the following features compares linear circuits and mechanical systems that are modeled by similar ordinary differential equations in order to provide an intuitive understanding of different types of linear time invariant systems introduces the theory of generalized functions which are defined by their behavior under an integral and describes several properties including derivatives and their laplace and fourier transforms

contains numerous tables and figures that summarize useful mathematical expressions and example results for specific circuits and systems which reinforce the material and illustrate subtle points provides access to a companion website that includes a solutions manual with matlab code for the end of chapter problems mathematical foundations for linear circuits and systems in engineering is written for upper undergraduate and first year graduate students in the fields of electrical and mechanical engineering this book is also a reference for electrical mechanical and computer engineers as well as applied mathematicians john j shynk phd is professor of electrical and computer engineering at the university of california santa barbara he was a member of technical staff at bell laboratories and received degrees in systems engineering electrical engineering and statistics from boston university and stanford university

professor jean van bladel an eminent researcher and educator in fundamental electromagnetic theory and its application in electrical engineering has updated and expanded his definitive text and reference on electromagnetic fields to twice its original content this new edition incorporates the latest methods theory formulations and applications that relate to today s technologies with an emphasis on basic principles and a focus on electromagnetic formulation and analysis electromagnetic fields second edition includes detailed discussions of electrostatic fields potential theory propagation in waveguides and unbounded space scattering by obstacles penetration through apertures and field behavior at high and low frequencies

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

this highly anticipated second edition of an artech house classic covers several key radar analysis areas the radar range equation detection theory ambiguity functions waveforms antennas active arrays receivers and signal processors cfar and chaff analysis readers will be able to predict the detection performance of a radar system using the radar range equation its various parameters matched filter theory and swerling target models the

performance of various signal processors single pulse pulsed doppler lfm nlfm and bpsk are discussed taking into account factors including mti processing integration gain weighting loss and straddling loss the details of radar analysis are covered from a mathematical perspective with in depth breakdowns of radar performance in the presence of clutter readers will be able to determine the noise temperature of a multi channel receiver as it is used in active arrays with the addition of three new chapters on moving target detectors inverse synthetic aperture radar isar and constant false alarm rate cfar and new matlab codes this expanded second edition will appeal to the novice as well as the experienced practitioner

an integrated approach to environmental data management is necessitated by the complexity of the environmental problems that need to be addresses coupled with the interdisciplinary approach that needs to be adopted to solve them agenda 21 of the rio environmental conference mandated international programmes and organizations to take steps to develop common data and information management plans and steps have been taken in this direction the key word that defines the framework of the present book is integration the book establishes the basics of integrated approaches and covers environmental data management systems within that framework covering all aspects of data management from objectives and constraints design of data collection networks statistical and physical sampling remote sensing and gis databases reliability of data data analysis and the transformation of data into information

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

the book is primarily designed to cater to the needs of undergraduate and postgraduate students of electronics and communication engineering and allied branches it also caters for fundamental requirements of professionals working on design and development of antenna and wave propagation related equipment either in research laboratories or industries or academic institutions elsewhere the book has been written with intent to grasp the basic understanding of theoretical as well as practical aspects of electromagnetic wave propagation and antenna engineering the text has been aptly scripted considering the requirements of average students who can easily grasp and comprehend the basics of wave propagation and radiation mechanism of varieties of antennas coupled with their critical functionalities utilities advantages disadvantages without any external assistance of

teachers or other reference books the book broaches very well on practical methods of parametric measurements of antenna with right measuring test equipment and associated tools the last chapter of the book is dedicated to advance technology adopted in design and development of modern antenna key features a fairly large number of well labelled diagrams to provide practical understanding of the concepts the placement of numericals at appropriate places develops confidence among readers and enthruses them further to read in depth to crack any regular or competitive examinations chapter summary highlights important points for quick recap and revision before examination well crafted multiple choice questions with answers at the end of each chapter to stimulate thought process and prepare better for viva voce and competitive examinations appropriate number of unsolved numerical problems with answers to improve problem solving skill of students

learn to solve both simple and complex electromagnetic problems with this text s unique integration of theoretical and mathematical concepts with the author s guidance you ll discover a broad range of classic and cutting edge applications across a wide array of fields including biomedicine wireless communication process control and instrumentation case studies detailed derivations and 170 fully solved examples deepen your understanding of theory and help you apply numerical methods to real world problems

continuing in the footsteps of the pioneering first edition signal and image processing for remote sensing second edition explores the most up to date signal and image processing methods for dealing with remote sensing problems although most data from satellites are in image form signal processing can contribute significantly in extracting information from remotely sensed waveforms or time series data this book combines both providing a unique balance between the role of signal processing and image processing featuring contributions from worldwide experts this book continues to emphasize mathematical approaches not limited to satellite data it also considers signals and images from hydroacoustic seismic microwave and other sensors chapters cover important topics in signal and image processing and discuss techniques for dealing with remote sensing problems each chapter offers an introduction to the topic before delving into research results making the book accessible to a broad audience this second edition reflects the considerable advances that have occurred in the field with 23 of 27 chapters being new or entirely rewritten coverage includes new mathematical developments such as compressive sensing empirical mode decomposition and sparse representation as well as new component analysis methods such as non negative matrix and tensor factorization the book also presents new experimental results on sar and hyperspectral image processing the emphasis is on mathematical techniques that will far outlast the rapidly changing sensor software and hardware technologies written for industrial and academic researchers and graduate students alike this book helps readers connect the dots in image and signal processing new in this edition the second edition includes four chapters from the first edition plus 23 new or entirely rewritten chapters and 190 new figures new topics covered include compressive sensing the mixed pixel problem with hyperspectral images hyperspectral image hsi target detection and classification based on sparse representation an isar technique for refocusing moving targets in sar images empirical mode decomposition for signal processing feature extraction for classification of remote sensing signals and images active learning methods in classification of remote sensing images signal subspace identification of hyperspectral data wavelet based multi hyperspectral image restoration and fusion the second edition is not intended to replace the first edition entirely and readers are encouraged to read both editions of the book for a more

complete picture of signal and image processing in remote sensing see signal and image processing for remote sensing crc press 2006

radar polarimetry has been highly sought after for its use in the precise monitoring of earth's surface polarimetric sar imaging explains the basic concepts of polarimetry and its diverse applications including deforestation tree classification landslide detection tsunamis volcano eruptions and ash distribution snow accumulation rice field monitoring urban area exploration ship detection among other applications the explanations use actual data sets taken by advanced land observing satellite alos and alos2 with the increasing problems presented by climate change there is a growing need for detailed earth observation using polarimetric data as the treatment of vector nature of radar waves is complex there is a gap between the theory and the application polarimetric sar imaging theory and applications addresses and fills this gap features provides cutting edge polarimetric applications for earth observation with full color images includes detailed descriptions of theory equations expansions and flowcharts and numerous real examples explains concepts data analysis and applications in simple and clear language aimed at an intuitive comprehension provides specific and unique examples of polsar images derived from actual space and airborne systems alos alos2 piasar x1 covers the wide range of the radar polarimetry especially the decomposition of the polarimetry data an original method developed by the author using the japanese polarimetric sar data illustrated in full color using images generated by polarimetric techniques this book is easy to understand and use for both student and expert and is an excellent resource both in the classroom and in the field

geomatics is a neologism the use of which is becoming increasingly widespread even if it is not still universally accepted it includes several disciplines and techniques for the study of the earth's surface and its environments and computer science plays a decisive role a more meaningful and appropriate expression is geo spatial information or geoinformation geo spatial information embeds topography in its more modern forms measurements with electronic instrumentation sophisticated techniques of data analysis and network compensation global satellite positioning techniques laser scanning etc analytical and digital photogrammetry satellite and airborne remote sensing numerical cartography geographical information systems decision support systems webgis etc these specialized fields are intimately interrelated in terms of both the basic science and the results pursued rigid separation does not allow us to discover several common aspects and the fundamental importance assumed in a search for solutions in the complex survey context the objective pursued by mario a. gomarasca one that is only apparently modest is to publish an integrated text on the surveying theme containing simple and comprehensible concepts relevant to experts in geo spatial information and or specially in one of the disciplines that compose it at the same time the book is rigorous and synthetic describing with precision the main instruments and methods connected to the multiple techniques available today

within the framework of ispra courses a course on applications of remote sensing to agrometeorology was held from april 6th to 10th 1987 at the joint research centre of the european communities ispra italy the purpose of the course was to familiarize scientists active in agrometeorology and related fields with remote sensing techniques and their potential applications in their respective disciplines conventional ground investigations in various fields of natural sciences such as hydrology pedology and agrometeorology can be supplemented by a range of instruments carried by

airborne or earth orbiting platforms the last few years in particular have seen many developments in this respect and a growing amount of information can now be derived not only from dedicated earth resources satellites such as the landsat and spot but also from other platforms such as meteosat and the series of noaa tiros future platforms ers l space station etc with their advanced sensors will further broaden the range of applications open to the investigators the use of these data sources together with field investigations can lead at a reduced cost to a better characterization of the spatial and temporal properties of natural systems

demystifies the operation of electric machines by bridging electromagnetic fields electric circuits numerical analysis and computer programming ideal for graduates and senior undergraduates taking courses on all aspects of electric machine design and control and accompanied by downloadable python code and instructor solutions

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