

Antenna 1 14

Uri Nissanov, Ghanshyam Singh

Antenna Handbook Y.T. Lo, S.W. Lee, 1993-10-31
Volume II covers antenna theory and design, describing a number of antenna types, including receiving, wire and loop, horn, frequency-independent, microstrip, reflector, and lens antennas. This section also includes arrays, providing array theory as well as exploring waveguide-fed slot arrays, periodic arrays, and aperiodic arrays.

Antenna Design by Simulation-Driven Optimization
Slawomir Koziel, Stanislav Ogurtsov, 2014-02-12 This Brief reviews a number of techniques exploiting the surrogate-based optimization concept and variable-fidelity EM simulations for efficient optimization of antenna structures. The introduction of each method is illustrated with examples of antenna design. The authors demonstrate the ways in which practitioners can obtain an optimized antenna design at the computational cost corresponding to a few high-fidelity EM simulations of the antenna structure. There is also a discussion of the selection of antenna model fidelity and its influence on performance of the surrogate-based design process. This volume is suitable for electrical engineers in academia as well as industry, antenna designers and engineers dealing with computationally-expensive design problems.

Antenna Theory Constantine A. Balanis, 2016-02-01
Updated with color and gray scale illustrations, a companion website housing supplementary material, and new sections covering recent developments in antenna analysis and design This book introduces

the fundamental principles of antenna theory and explains how to apply them to the analysis, design, and measurements of antennas. Due to the variety of methods of analysis and design, and the different antenna structures available, the applications covered in this book are made to some of the most basic and practical antenna configurations. Among these antenna configurations are linear dipoles; loops; arrays; broadband antennas; aperture antennas; horns; microstrip antennas; and reflector antennas. The text contains sufficient mathematical detail to enable undergraduate and beginning graduate students in electrical engineering and physics to follow the flow of analysis and design. Readers should have a basic knowledge of undergraduate electromagnetic theory, including Maxwell's equations and the wave equation, introductory physics, and differential and integral calculus. Presents new sections on flexible and conformal bowtie, Vivaldi antenna, antenna miniaturization, antennas for mobile communications, dielectric resonator antennas, and scale modeling Provides color and gray scale figures and illustrations to better depict antenna radiation characteristics Includes access to a companion website housing MATLAB programs, Java-based applets and animations, Power Point notes, Java-based interactive questionnaires and a solutions manual for instructors Introduces over 100 additional end-of-chapter problems Antenna Theory: Analysis and Design, Fourth Edition is designed to meet the needs of senior undergraduate and beginning graduate level students in electrical engineering and physics, as well as

practicing engineers and antenna designers. Constantine A. Balanis received his BSEE degree from the Virginia Tech in 1964, his MEE degree from the University of Virginia in 1966, his PhD in Electrical Engineering from The Ohio State University in 1969, and an Honorary Doctorate from the Aristotle University of Thessaloniki in 2004. From 1964 to 1970, he was with the NASA Langley Research Center in Hampton, VA, and from 1970 to 1983, he was with the Department of Electrical Engineering of West Virginia University. In 1983 he joined Arizona State University and is now Regents' Professor of Electrical Engineering. Dr. Balanis is also a life fellow of the IEEE.

Modern Antenna Design Thomas A.

Milligan, 2005-07-08 A practical book written for engineers who design and use antennas. The author has many years of hands on experience designing antennas that were used in such applications as the Venus and Mars missions of NASA. The book covers all important topics of modern antenna design for communications. Numerical methods will be included but only as much as are needed for practical applications.

Wideband, Multiband, and Smart Antenna Systems

Mohammad Abdul Matin, 2021-09-21 This book provides current R&D trends and novel approaches in design and analysis of broadband, multiband, and smart antennas for 5G and B5G mobile and wireless applications, as well as the identification of integration techniques of these antennas in a diverse range of devices. The book presents theoretical and experimental approaches to help the reader in understanding the unique design

issues and more advanced research. Moreover, the book includes chapters on the fundamentals of antenna theory. The book is pertinent to professionals and researchers working in the field of antenna engineering; it is written for graduate students, researchers, academics, and industry practitioners who want to improve their understanding in the current research trends in design analysis of broadband, multiband, and smart antennas for wireless applications.

Emerging Optoelectronic Technologies and Applications Yu-Hwa Lo, 1997 This book discusses some of the most important emerging optoelectronic technologies foreseen to have major technical and business impact in the future. In this spirit, four general technological areas have been selected: optoelectronic display, optical micro-electro-mechanical systems (MEMS), semiconductor lasers for wireless and loop applications, and optoelectronic integration technologies. In each of the four areas, two review articles that provide the technical background and sample some of the most significant recent breakthroughs were authored by the well regarded experts in the field. This book is meant to provide timely information to professionals in optoelectronics, electronics, communications, sensing, and computer areas who want to keep up with the rapidly developing and increasingly diverse optoelectronic technologies.

Terahertz Antenna Technology for Imaging and Sensing Applications Isha Malhotra, Ghanshyam Singh, 2021-05-11 This book covers terahertz antenna technology for imaging and sensing, along

with its various applications. The authors discuss the use of terahertz frequency and photoconductive antenna technology for imaging applications, such as biological and bio-medical applications, non-destructive inspection of fabrics and plastics, analysis of hydration levels or detecting the presence of metallic components in samples, and detecting a variety of materials with unique spectral fingerprints in the terahertz frequency range, such as different types of explosives or several compounds used in the fabrication of medicines. Provides a comprehensive review of terahertz source and detector for imaging and sensing; Discusses photoconductive antenna technology for imaging and sensing; Presents modalities for improving the photoconductive dipole antenna performance for imaging and sensing; Explores applications in tomographic imaging, art conservation and the pharmaceutical and aerospace industries.

Principles of Planar Near-Field Antenna

Measurements Stuart Gregson, John McCormick, Clive Parini, 2007-12-31 This single volume provides a comprehensive introduction and explanation of both the theory and practice of 'Planar Near-Field Antenna Measurement' from its basic postulates and assumptions, to the intricacies of its deployment in complex and demanding measurement scenarios. To do this the book initially examines the properties of antennas that allow them to enhance the free space interaction of electronic systems and this leads into a full description of the theory of 'Planar Near-Field Scanning'.

Antenna Technology for Terahertz Wireless

Communication Uri Nissanov, Ghanshyam

Singh, 2023-07-11 This book discusses terahertz (THz) wireless communication, particularly for 6G enabling technologies, including antenna design, and channel modeling with channel characteristics for the success of reliable 6G wireless communication. The authors describe THz microstrip antenna technologies with different substrates and introduce some useful substrates to reduce the conductor and substrate losses at the THz frequencies. The discussion also includes the design of the THz unit-cell microstrip antenna and the techniques to boost the microstrip antennas' gain, directivity, and impedance bandwidth (BW), which influence the wireless communication range which is highly affected by the path losses of atmospheric conditions, and transmit and receive data rates, respectively. Moreover, this book discusses the multi-beam and beamforming THz antenna technologies with the multi-user-multiple-input-multiple-output (MU-MIMO) features. Additionally, this book describes the reconfigurable capabilities, artificial intelligence, machine learning, and deep learning technologies that will influence the success of 6G wireless communication and the authors suggest a remedy for integrating multiple radios into the system-on-chip (SoC) design.

Antenna Theory and Design Warren L.

Stutzman, Gary A. Thiele, 2012-05-22 Stutzman's 3rd edition of Antenna Theory and Design provides a more pedagogical approach with a greater emphasis on computational methods. New features include additional modern material to make the text more

exciting and relevant to practicing engineers; new chapters on systems, low-profile elements and base station antennas; organizational changes to improve understanding; more details to selected important topics such as microstrip antennas and arrays; and expanded measurements topic.

LTE-Advanced Sassan Ahmadi, 2013-10-10 This book is an in-depth, systematic and structured technical reference on 3GPP's LTE-Advanced (Releases 10 and 11), covering theory, technology and implementation, written by an author who has been involved in the inception and development of these technologies for over 20 years. The book not only describes the operation of individual components, but also shows how they fit into the overall system and operate from a systems perspective. Uniquely, this book gives in-depth information on upper protocol layers, implementation and deployment issues, and services, making it suitable for engineers who are implementing the technology into future products and services. Reflecting the author's 25 plus years of experience in signal processing and communication system design, this book is ideal for professional engineers, researchers, and graduate students working in cellular communication systems, radio air-interface technologies, cellular communications protocols, advanced radio access technologies for beyond 4G systems, and broadband cellular standards. An end-to-end description of LTE/LTE-Advanced technologies using a top-down systems approach, providing an in-depth understanding of how the overall system works Detailed algorithmic

descriptions of the individual components' operation and inter-connection Strong emphasis on implementation and deployment scenarios, making this a very practical book An in-depth coverage of theoretical and practical aspects of LTE Releases 10 and 11 Clear and concise descriptions of the underlying principles and theoretical concepts to provide a better understanding of the operation of the system's components Covers all essential system functionalities, features, and their inter-connections based on a clear protocol structure, including detailed signal flow graphs and block diagrams Includes methodologies and results related to link-level and system-level evaluations of LTE-Advanced Provides understanding and insight into the advanced underlying technologies in LTE-Advanced up to and including Release 11: multi-antenna signal processing, OFDM, carrier aggregation, coordinated multi-point transmission and reception, eICIC, multi-radio coexistence, E-MBMS, positioning methods, real-time and non-real-time wireless multimedia applications

Cable and antenna systems

installation/maintenance specialist (AFSC 36150)

Herbert J. Salisbury, 1984

Electromagnetics and Antenna Technology Alan J. Fenn, 2017-12-31 Written by a leading expert in the field, this practical new resource presents the fundamentals of electromagnetics and antenna technology. This book covers the design, electromagnetic simulation, fabrication, and measurements for various types of antennas, including impedance matching techniques and beamforming for ultrawideband dipoles, monopoles,

loops, vector sensors for direction finding, HF curtain arrays, 3D printed nonplanar patch antenna arrays, waveguides for portable radar, reflector antennas, and other antennas. It explores the essentials of phased array antennas and includes detailed derivations of important field equations, and a detailed formulation of the method of moments. This resource exhibits essential derivations of equations, providing readers with a strong foundation of the underpinnings of electromagnetics and antennas. It includes a complete chapter on the details of antenna and electromagnetic test and measurement. This book explores details on 3D printed non-planar circular patch array antenna technology and the design and analysis of a planar array-fed axisymmetric gregorian reflector. The lumped-element impedance matched antennas are examined and include a look at an analytic impedance matching solution with a parallel LC network. This book provides key insight into many aspects of antenna technology that have broad applications in radar and communications.

Handbook on Advancements in Smart Antenna Technologies for Wireless Networks Sun, Chen, Cheng, Jun, Ohira, Takashi, 2008-07-31 Provides information on smart antenna technologies featuring contributions with in-depth descriptions of terminologies, concepts, methods, and applications related to smart antennas in various wireless systems.

Multi-antenna Transceiver Techniques for 3G and Beyond Ari Hottinen, Olav Tirkkonen, Risto Wichman, 2004-08-13 Multi-antenna techniques are

widely considered to be the most promising avenue for significantly increasing the bandwidth efficiency of wireless data transmission systems. In so called MIMO (multiple input multiple output) systems, multiple antennas are deployed both at the transmitter and the receiver. In MISO (multiple input single output) systems, the receiver has only one antenna, and the multiple transmit antennas are used for transmit diversity. The key aspects of multiple antenna transceiver techniques for evolving 3G systems and beyond are presented. MIMO and MISO (transmit diversity) techniques are explained in a common setting. In particular, the book covers linear processing transmit diversity methods with and without side information at the transmitter (feedback), including the current transmit diversity concepts in the WCDMA standards, as well as promising MIMO concepts, crucial for future high data rate systems. As an example, MIMO and MISO aspects of 3GPP HSDPA (high speed downlink packet access) will be considered. Furthermore, examples of high throughput, low complexity space-time codes will be provided, when signalling without side information (open loop concepts). The theory of linear space-time block codes will be developed, and optimal non-orthogonal high throughput codes will be constructed, both for MIMO and MISO systems. Performance may be further improved by feedback from receiver to transmitter. The corresponding closed loop modes in the current 3GPP specifications will be discussed, along with their extensions for more than two transmit antennas. In addition, feedback signalling for

MIMO channels will be addressed. Optimal quantisation methods of the feedback messages will be discussed. Finally, hybrid schemes are constructed, where the amount of feedback is reduced using partly open, partly closed loop signalling. * Provides a concise and up-to-date description of perhaps the most active area of research in wireless communications * Unique in presenting recent developments in both WCDMA and MIMO * MIMO and MISO techniques are explained in a common setting * Special emphasis is placed on combining theoretical understanding with engineering applicability For Research engineers in academia and industry, and development engineers in 3G system design as well as research students.

Digital Convergence in Antenna Design P. Srividya, S. Ramya, Anitha Peram, Ashish Singh, 2024-03-01 DIGITAL CONVERGENCE in ANTENNA DESIGN The latest addition to this series presents high-quality original research contributions on analytical and practical models and ideas in the field of antennas, including a thorough look at RF techniques like antennas, RFID, and filters with special emphasis on real-time applications like e-health, RADAR, and mobile and satellite communications. This book is intended to disseminate recent trends in antenna designs for real-time applications that leverage digital convergence. The book intends to report the latest research findings, as well as the state-of-the-art RF techniques related to antennas, RFID, filters, etc., with special emphasis on real-time applications like e-health, RADAR, and mobile and

satellite communications. The book can be used as a reference for researchers who want to explore the convergence of AI/ML/DL, big data, and IoT in the areas of antenna and advanced communication technologies for real-time applications. These real-time applications can include e-healthcare, intelligent transportation, aerospace, retail, manufacturing, industrial plants, and defense products where communications play a major role.

Communication Satellite Antennas: System Architecture, Technology, and Evaluation Robert Dybdal, 2009-05-31 A Practical Approach To Antenna Technology For Communication Satellites This authoritative resource discusses antenna technology for communication satellites, addressing both the space and user segments. The book provides a system view of antenna applications, a description of various antenna technologies, and guidance on methodologies for antenna evaluation. Communication Satellite Antennas begins with an overview of the parameters that characterize antennas, and goes on to cover the antenna designs, technologies, and system architectures required for communication satellite systems. Techniques to mitigate interference are covered, and the processes used in the development and characterization of antenna systems are reviewed. Discover how to: Adhere to the system parameters used to quantify antenna performance Understand the technologies used in wide coverage, earth coverage, narrow coverage, and array antennas Work within standard communication satellite system architectures and orbital alternatives Address propagation limitations and

link performance Implement reliable antenna interference mitigation techniques Develop space segment antennas, including spot beam, multiple beam, adaptive uplink, active aperture, and point-to-point antennas Apply user segment technologies, such as reflector antenna technology, antenna sidelobe control techniques, and adaptive interference cancellation systems Evaluate satellite antennas and systems using rigorous methodologies

Index of Specifications and Related Publications Used by U.S. Air Force Military Index ,1953-10

Antenna Theory and Microstrip Antennas D. G. Fang,2017-12-19 Antenna Theory and Microstrip Antennas offers a uniquely balanced analysis of antenna fundamentals and microstrip antennas. Concise and readable, it provides theoretical background, application materials, and details of recent progress. Exploring several effective design approaches, this book covers a wide scope, making it an ideal hands-on resource for professionals seeking a refresher in the fundamentals. It also provides the basic grounding in antenna essentials that is required for those new to the field. The book's primary focus is on introducing practical techniques that will enable users to make optimal use of powerful commercial software packages and computational electromagnetics used in full wave analysis and antenna design. Going beyond particular numerical computations to teach broader concepts, the author systematically presents the all-important spectral domain approach to analyzing microstrip structures including antennas. In addition to a discussion of

near-field measurement and the high-frequency method, this book also covers: Elementary linear sources, including Huygen's planar element, and analysis and synthesis of the discrete and continuous arrays formed by these elementary sources The digital beam-forming antenna and smart antenna Cavity mode theory and related issues, including the design of irregularly shaped patches and the analysis of mutual coupling Based on much of the author's own internationally published research, and honed by his years of teaching experience, this text is designed to bring students, engineers, and technicians up to speed as efficiently as possible. This text purposefully emphasizes principles and includes carefully selected sample problems to ease the process of understanding the often intimidating area of antenna technology. Paying close attention to this text, you will be able to confid

Transactions of the Connecticut Academy of Arts and Sciences ,1910 Vol. 15, To the University of Leipzig on the occasion of the five hundredth anniversary of its foundation, from Yale University and the Connecticut Academy of Arts and Sciences, 1909.

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