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FITZGERALD LARSON

Antennas and Radiowave Propagation John Wiley & Sons

A guide to the theory and recent development in the medical use of antenna technology Antenna and Sensor Technologies in Modern Medical Applications offers a comprehensive review of the theoretical background, design, and the latest developments in the application of antenna technology. Written by two experts in the field, the book presents the most recent research in the burgeoning field of wireless medical

telemetry and sensing that covers both wearable and implantable antenna and sensor technologies. The authors review the integrated devices that include various types of sensors wired within a wearable garment that can be paired with external devices. The text covers important developments in sensor-integrated clothing that are synonymous with athletic apparel with built-in electronics. Information on implantable devices is also covered. The book explores technologies that utilize both inductive coupling and far field propagation. These include minimally invasive microwave ablation antennas, wireless targeted drug delivery, and much more. This important book: Covers recent developments in wireless medical

telemetry Reviews the theory and design of in vitro/in vivo testing Explores emerging technologies in 2D and 3D printing of antenna/sensor fabrication Includes a chapter with an annotated list of the most comprehensive and important references in the field Written for students of engineering and antenna and sensor engineers, Antenna and Sensor Technologies in Modern Medical Applications is an essential guide to understanding human body interaction with antennas and sensors. Proposal for a Feasibility Study of a Polarization-adaptive Antenna McGraw-Hill Companies Introduces antenna theory, covering all the topics necessary for antennas used in

radar and communications. Important areas treated include antenna noise, matching of misaligned antennas and radiation of a quasimonochromatic wave by an antenna. Further discussions explore wave polarization and target detection. Appendices include the Mueller and Kennaugh Matrices.

Noncontinuous Helically Wound Dipole Antenna Study Artech House Publishers

An introduction to antenna Arraying in the Deep Space network Antenna arraying is the combining of the output from several antennas in order to improve the signal-to-noise ratio (SNR) of the received signal. Now implemented at the Goldstone Complex and other Deep Space Network (DSN) overseas facilities, antenna arraying provides flexible use of multiple antennas to increase data rates and has enabled NASA's DSN to extend the missions of some spacecraft beyond their planned lifetimes. Antenna Arraying Techniques in the Deep Space Network introduces the development and use of antenna arraying as it is implemented in the DSN. Drawing on the work of scientists at JPL, this timely volume summarizes the development of

antenna arraying and its historical background; describes key concepts and techniques; analyzes and compares several methods of arraying; discusses several correlation techniques used for obtaining the combined weights; presents the results of several arraying experiments; and suggests directions for future work. An important contribution to the scientific literature, Antenna Arraying Techniques in the Deep Space Network Was commissioned by the JPL Deep Space Communications and Navigation Systems (DESCANSO) Center of Excellence Highlights many NASA-funded technical contributions pertaining to deep space communications systems Is a part of the prestigious JPL Deep Space Communications and Navigation Series The Deep Space Communications and Navigation Series is authored by scientists and engineers with extensive experience in astronautics, communications, and related fields. It lays the foundation for innovation in the areas of deep space navigation and communications by disseminating state-of-the-art knowledge in key technologies.

Understanding Antennas for Radar,

Communications, and Avionics Artech House Antenna Library
With the development of mobile 4G communication system, people's requirements for the speed of wireless communication are rapidly increasing. In order to meet this need, the research and development of the fifth generation (5G) wireless systems has been carried out. Compared with previous generation (1G~4G), 5G will have significant improvements in transmission rate, latency, mobility and so on. The book "Microwave/RF Components for 5G Front-End Systems" is outlines the simulation, design, and fabrication of microwave components including Antennas, Filters, and Power Amplifiers for 5G wireless communications. In addition, exhaustive reviews have been presented, classifying the various types and applications of reconfigurable antennas, Filters and amplifiers for current and future wireless networks.

Antennas with Non-Foster Matching Networks Cambridge University Press
Explains in detail the underlying principles of four-arm spiral direction-finding antennas for those who wish to design

such systems. Includes performance results and practical aspects for the first-time designer. For all models, and for symmetrical and simplified variations, discusses mode forming,

Cylindrical Antennas and Arrays John Wiley & Sons

MULTIFUNCTIONAL ANTENNAS AND ARRAYS FOR WIRELESS COMMUNICATION SYSTEMS Offers an up-to-date discussion of multifunctional antennas and arrays for wireless communication systems

Multifunctional Antennas and Arrays for Wireless Communication Systems is a comprehensive reference on state-of-the-art reconfigurable antennas and 4G/5G communication antennas. The book gives a unique perspective while giving a comprehensive overview of the following topics: Frequency reconfigurable antennas
Pattern reconfigurable antennas
Polarization reconfigurable antennas
Reconfigurable antennas using Liquid Metal, Piezoelectric, and RF MEMS MIMO and 4G/5G wireless communication antennas
Metamaterials and metasurfaces in reconfigurable antennas
Multifunctional antennas for user equipments (UEs)
Defense related antennas and applications

Flat panel phased array antennas The book is a valuable resource for the practicing engineer as well as for those within the research field. As wireless communications continuously evolves, more and more functionally will be required, and thus multifunctional antennas and RF systems will be necessary. These multifunctional antennas will require a degree of reconfigurability, and this book discusses various methods which enable this. The main topics of frequency, pattern, and polarization reconfigurability is first discussed. Methods utilizing unique materials and devices, both real and artificial are discussed. The book also delves into 4G/5G antennas as it relates to MIMO, and millimeter-wave phased arrays. Finally, there is a section on defense related multifunctional RF antenna systems. Reflectivity of Materials Used on Antenna Pattern Ranges Kluwer Academic Pub Provides an introduction to High-Altitude Platform Stations (HAPS) technology and its applications for wireless communications High-altitude platform stations offer a promising new technology that combines the benefits of terrestrial

and satellite communication systems for delivering broadband communications to users at a low cost. They are easily deployable and easy to maintain, which is why they offer a good alternative for network operators who need to find ways to get more coverage to satisfy the increasing demand for more capacity. HAPS are usually balloons, airships or unmanned aerial systems (UAS) located in the stratosphere. An enormous interest has grown worldwide to examine their use not only for broadband communications, but also for emergency services, navigation, traffic monitoring, cellular, etc. Key features include: Unique book focusing on emerging HAPS technology and its applications Provides a thorough overview of the technology including HAPS-based communications systems, antennas for HAPS, radio propagation and channel modelling issues and HAPS networking aspects Presents various HAPS-related projects and initiatives developed throughout the world (North America, Europe and Asia-Pacific) Features a comprehensive overview on both aeronautical and telecommunications regulatory aspects, which will affect the

deployment and future developments in the field of HAPS High-Altitude Platform Systems for Wireless Communications will prove essential reading for postgraduate students in the field of HAPS, engineers, developers and designers involved in the design and maintenance of HAPS, aerospace engineers, and communications system planners and researchers.

Dielectric Resonator Antenna Handbook
Artech House Mobile Communicat
This is the only book currently available that covers this subject. The authors piece together information from diverse areas which is essential to understand integrated and integrated active antennas. Emphasis is placed on active antennas and power combining applications, consolidating the work from numerous researchers. Early chapters lay the foundation for oscillator, antenna, array and power combining theory. Chapter five discusses important testing parameters and techniques for active antenna measurements and includes definitions for equivalent isotropic radiated power, locking gain and locking bandwidth. The last chapter sheds light on beam steering, a more recent development in active

antenna arrays. Contains over 200 illustrations.

Implantable Ferrite Antenna for Biomedical Applications

Artech House
This useful tool provides the reader with a current overview of where microstrip patch antenna technology is at, and useful information on how to design this form of radiator for their given application and scenario. Practical design cases are provided for each goal.

Location of Pattern-disturbing Structures in the Vicinity of an Antenna
Artech House on Demand

An accessible introduction to the theory of space-time wireless communications.

Antenna Arraying Techniques in the Deep Space Network
Wiley-Interscience

Enhance any display with these beautiful borders that feature full-color photographs of panoramic scenes. Eight 24" x 6" borders connect seamlessly for a total length of 16 feet. For use with Grades PreK-5.

Feasibility Study of a Polarization-controllable Antenna

Artech House
Antenna Library
Explosive growth of wireless communications is demanding increased

system capacity for mobile communications satellites - and the expert authors of this first-of-a-kind book explore a promising, cost-effective solution: digital beamforming (DBF) technology.

Microwave Cavity Antennas
John Wiley & Sons

Most antenna engineers are likely to believe that antennas are one technology that is more or less impervious to the rapidly advancing semiconductor industry. However, as demonstrated in this lecture, there is a way to incorporate active components into an antenna and transform it into a new kind of radiating structure that can take advantage of the latest advances in analog circuit design. The approach for making this transformation is to make use of non-Foster circuit elements in the matching network of the antenna. By doing so, we are no longer constrained by the laws of physics that apply to passive antennas. However, we must now design and construct very touchy active circuits. This new antenna technology is now in its infancy. The contributions of this lecture are (1) to summarize the current state-of-the-art in this subject, and (2) to introduce

some new theoretical and practical tools for helping us to continue the advancement of this technology.

Four-arm Spiral Antennas Springer

The integral equations describing the current distribution along the elements of a circular array of tangential dipoles are formulated, and it is shown that the leading term of a series solution is the usual sinusoidal approximation. This approximate distribution is used to calculate the terminal sequence impedance and far-zone radiation patterns for arrays of half-wave dipoles. Patterns are also found for arrays of short dipoles. The effect of asymmetry in the interelement coupling is investigated, and it is shown that an odd component exists in the current distribution, but that is negligible for half-wave dipoles. (Author).

Large Antennas of the Deep Space Network Wiley-Interscience

This book describes both theoretical and practical aspects of advanced broadband patch antennas, providing a comprehensive review of the state of the art in the field. Modern antenna techniques are discussed for single patches, dual linear and circular

polarizations designs, and arrays used in mobile communications. Includes 88 equations, 115 figures, and 200 references.

Integrated Active Antennas and Spatial Power Combining John Wiley & Sons

Due to the spectacular growth of electronic systems and the steady demand for new services with increased functionality, the development of more efficient measurement techniques has become of paramount importance. This practical resource details the cutting-edge Modulated Scatterer Technique, which offers a low-invasive and rapid method for testing and measuring systems and equipment used in a wide range of electronic engineering applications. Extensively referenced with 125 illustrations and 100 equations.

Antipodal Vivaldi Antennas for Microwave Imaging of Construction Materials and Structures IET

MULTIFUNCTIONAL ANTENNAS AND ARRAYS FOR WIRELESS COMMUNICATION SYSTEMS Offers an up-to-date discussion of multifunctional antennas and arrays for wireless communication systems Multifunctional Antennas and Arrays for

Wireless Communication Systems is a comprehensive reference on state-of-the-art reconfigurable antennas and 4G/5G communication antennas. The book gives a unique perspective while giving a comprehensive overview of the following topics: Frequency reconfigurable antennas Pattern reconfigurable antennas Polarization reconfigurable antennas Reconfigurable antennas using Liquid Metal, Piezoelectric, and RF MEMS MIMO and 4G/5G wireless communication antennas Metamaterials and metasurfaces in reconfigurable antennas Multifunctional antennas for user equipments (UEs) Defense related antennas and applications Flat panel phased array antennas The book is a valuable resource for the practicing engineer as well as for those within the research field. As wireless communications continuously evolves, more and more functionally will be required, and thus multifunctional antennas and RF systems will be necessary. These multifunctional antennas will require a degree of reconfigurability, and this book discusses various methods which enable this. The main topics of frequency, pattern, and polarization

reconfigurability is first discussed. Methods utilizing unique materials and devices, both real and artificial are discussed. The book also delves into 4G/5G antennas as it relates to MIMO, and millimeter-wave phased arrays. Finally, there is a section on defense related multifunctional RF antenna systems. *Electromagnetic Waves and Antennas for Biomedical Applications* Artech House Antenna Library

The computation of fractals has progressed from an interesting mathematical concept proposed by Mandelbrot to having a wide variety of practical applications. Of major interest to engineering application is the use of

fractals for the design of antenna elements and arrays. Many recent publications have been made examining various fractals as antennas progressing from single elements to three-dimensional arrays. In this paper, we will explore one of the basic fractals, the Cantor fractal, to develop a simple linear array. The exploration will observe the iterative process of the Cantor fractal and demonstrate its progressive impact to the creation of a linear antenna array. Further, the array generated will be explored across frequency to examine the effect of the dimensions of the array upon the frequency responsiveness. Multifunctional Antennas and Arrays for Wireless Communication Systems John

Wiley & Sons

This book discusses electromagnetic waves and antennas used as diagnostic tools and therapeutic techniques for applications in cancer detection, stroke event detection, GI diagnostics, and cardiovascular risk predictions. It discusses electromagnetic devices, wireless implants, and in vitro and in vivo testing. Implementing Planetary Meteor Impact Craters as High Gain Radio Frequency Dish Reflector Antennas AVID SCIENCE

Good, No Highlights, No Markup, all pages are intact, Slight Shelfwear, may have the corners slightly dented, may have slight color changes/slightly damaged spine.