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The Handbook of Antenna Design

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.

Modular Antenna Design Study

Who's who in Technology

Analysis, Design, and Measurement of Small and Low-profile Antennas

Modern Antenna Design, Second Edition continues the practical approach that marked the popular first edition by distilling theory to the essentials of antenna design without becoming buried in mathematics. Written by an expert antenna designer whose designs have been used on NASA missions to explore Mars and Venus, the book emphasizes and demonstrates real-world applications across a variety of fields, including telecommunications, remote sensing, and broadcasting.

Compte Rendu Du Dixieme Symposium Canadien Sur la Télédétection

Microstrip Antenna Design Handbook

Compact antennas are a subject of growing interest from industry and scientific community to equip wireless communicating objects. The need for high performance small antennas and RF front ends is the challenge for future and next generation mobile devices. This book brings the body of knowledge on compact antennas into a single comprehensive volume. It is designed to meet the needs of electrical engineering and physics students to the senior undergraduate and beginning graduate levels, and those of practicing engineers.

Who's who in Technology Today

Nuclear Fusion

Presents an overview of CubeSat antennas designed at the Jet Propulsion Laboratory (JPL) CubeSats—nanosatellites built to standard dimensions of 10cm x 10 cm x cm—are making space-based Earth science observation and interplanetary space science affordable, accessible, and rapidly deployable for institutions such as universities and smaller space agencies around the world. CubeSat Antenna Design is an up-to-date overview of CubeSat antennas designed at NASA's Jet Propulsion Laboratory (JPL), covering the systems engineering knowledge required to design these antennas from a radio frequency and mechanical perspective. This authoritative volume features contributions by leading experts in the field, providing insights on mission-critical design requirements for state-of-the-art CubeSat antennas and discussing their development, capabilities, and applications. The text begins with a brief introduction to CubeSats, followed by a detailed survey of low-gain, medium-gain, and high-gain antennas. Subsequent chapters cover topics including the telecommunication subsystem of Mars Cube One (MarCO), the enabling technology of Radar in a CubeSat (RainCube), the development of a one-meter mesh reflector for telecommunication at X- and Ka-band for deep space missions, and the design of multiple metasurface antennas. Written to help antenna engineers to enable new CubeSat NASA missions, this

volume: Describes the selection of high-gain CubeSat antennas to address specific mission requirements and constraints for instruments or telecommunication Helps readers learn how to develop antennas for future CubeSat missions Provides key information on the effect of space environment on antennas to inform design steps Covers patch and patch array antennas, deployable reflectarray antennas, deployable mesh reflector, inflatable antennas, and metasurface antennas CubeSat Antenna Design is an important resource for antenna/microwave engineers, aerospace systems engineers, and advanced graduate and postdoctoral students wanting to learn how to design and fabricate their own antennas to address clear mission requirements.

Analysis and Design of Integrated Circuit-Antenna Modules

Antenna Theory and Design

Vertical Rhombic Antenna Design

Fiber optic cables are an attractive alternative to conventional coaxial cables and waveguide beamforming networks because they offer larger bandwidth capabilities, immunity to electromagnetic interference, increased temperature tolerance, and smaller transmission losses.

Electromagnetics, Microwave Circuit and Antenna Design for Communications Engineering

Index to IEEE Publications

If you're looking for a clear, comprehensive and current overview of electromagnetics principles and applications to antenna and microwave circuit design for communications, this newly revised second edition is a smart choice. Among the numerous updates, the second edition features a brand new chapter on filters, an expanded treatment of antennas, and new sections of cylindrical waves and waves in layered media, multiconductor transmission lines, radio waveguides, and aperture coupling. What's more, you now find problem sets that help reinforce the understanding of key concepts in each chapter, making the book an excellent text for related graduate-level courses. For your convenience, the second edition presents examples in both exterior differential form calculus and conventional vector notation.

Antenna Design Using Personal Computers

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.

Problem Solving in Electromagnetics, Microwave Circuit, and Antenna Design for Communications Engineering

Presenting a wide range of real-world electromagnetics problems, this one-of-a-kind resource offers professionals and students complete, step-by-step solutions to the most critical challenges relating to antenna and microwave circuit design. The book serves as a practical standalone reference or as a perfect complement to the text Electromagnetics, Microwave Circuit, and Antenna Design for Communications Engineering, Second Edition by Peter Russer (Artech House, 2006). Readers find in-depth coverage of the concepts, methods and theorems they need to understand to effectively tackle critical problems in the field. Including numerous graphical illustrations and simplifying mathematical computations, the book offers a deep and intuitive understanding of the subject.

Modern Antenna Design

Canadian Journal of Physics

Tutorial in nature, this book is based on a series of papers presented at a workshop in Japan. It constitutes the first single-volume guide to the basic methods of analyzing microstrip patch antennas, and the characteristics of rectangular, circular and arbitrarily shaped patch antennas. Supported by 273 equations, tables and illustrations this book should prove a useful tool for anyone doing applied research in antennas.

Measurements, Antenna Design and Advanced Computer Modeling for Microwave Tissue Ablation

Metamaterials: Theory, Design, and Applications goes beyond left-handed materials (LHM) or negative index materials (NIM) and focuses on recent research activity. Included here is an introduction to optical transformation theory, revealing invisible cloaks, EM concentrators, beam splitters, and new-type antennas, a presentation of general theory on artificial metamaterials composed of periodic structures, coverage of a new rapid design method for inhomogeneous metamaterials, which makes it easier to design a cloak, and new developments including but not limited to experimental verification of invisible cloaks, FDTD simulations of invisible cloaks, the microwave and RF applications of metamaterials, sub-wavelength imaging using anisotropic metamaterials, dynamical metamaterial systems, photonic metamaterials, and magnetic plasmon effects of metamaterials.

Metamaterials

Shaped Reflector Antenna Design

CubeSat Antenna Design

Electronics Now

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.

Progress in Compact Antennas

Telecommunication Journal

Analysis and Design of Integrated-circuit Horn Antennas for Millimeter and Submillimeter-wave Applications

Radio Propagation and Adaptive Antennas for Wireless Communication Networks, 2nd Edition, presents a comprehensive overview of wireless communication system design, including the latest updates to considerations of over-the-terrain, atmospheric, and ionospheric communication channels. New features include the latest experimentally-verified stochastic approach, based on several multi-parametric models; all-new chapters on wireless network fundamentals, advanced technologies, and current and modern multiple access networks; and helpful problem sets at the conclusion of each chapter to enhance clarity. The volume's emphasis remains on a thorough examination of the role of obstructions on the corresponding propagation phenomena that influence the transmission of radio signals through line-of-sight (LOS) and non-line-of-sight (NLOS) propagation conditions along the radio path between the transmitter and the receiver antennas—and how adaptive antennas, used at the link terminals, can be used to minimize the deleterious effects of such obstructions. With its focus on 3G, 4G, MIMO, and the latest wireless technologies, Radio Propagation and Adaptive Antennas for Wireless Communication Networks represents an invaluable resource to topics critical to the design of contemporary wireless communication systems. Explores novel wireless networks beyond 3G, and advanced 4G technologies, such as MIMO, via propagation phenomena and the fundamentals of adapted antenna usage. Explains how adaptive antennas can improve GoS and QoS for any wireless channel, with specific examples and applications in land, aircraft and satellite communications. Introduces new stochastic approach based on several multi-parametric models describing various terrestrial scenarios, which have been experimentally verified in different environmental conditions New chapters on fundamentals of wireless networks, cellular and non-cellular, multiple access networks, new applications of adaptive antennas for positioning, and localization of subscribers Includes the addition of problem sets at the end of chapters describing fundamental aspects of wireless communication and antennas.

Landmark Experiments in Twentieth-Century Physics

Clear, detailed explorations feature extensive quotations from original research papers in their coverage of groundbreaking research. Topics include x-rays, superconductivity, neutrinos, lasers, and many other subjects. 120 illustrations. 1975 edition.

Radio Propagation and Adaptive Antennas for Wireless Communication Networks

Antenna Design for Mobile Devices

Canadian Journal of Electrical and Computer Engineering

Ham Radio Magazine

Reference Data for Engineers

Issues for 1973- cover the entire IEEE technical literature.

European Microwave Conference

Expanded and updated, this practical guide is a one-stop design reference containing all an engineer needs when designing antennas Integrates state-of-the-art technologies with a special section for step-by-step antenna design Features up-to-date bio-safety and electromagnetic compatibility regulation compliance and latest standards Newly updated with MIMO antenna design, measurements and requirements Accessible to readers of many levels, from introductory to specialist Written by a practicing expert who has hired and trained numerous engineers

Antenna Design with Fiber Optics

Based on Bahl and Bhartia's popular 1980 classic, Microstrip Antennas, this all new book provides the detail antenna engineers and designers need to design any type of microstrip antenna. After addressing essential microchip antenna theory, the authors highlight current design and engineering practices, emphasizing the most pressing issues in this area, including broadbanding, circular polarization, and active microstrip antennas in particular. Special design challenges, ranging from dual polarization, high bandwidth, and surface wave mitigation, to choosing the proper substrate, and shaping an antenna to achieve desired results are all covered.

Microwave Antenna Theory and Design

Microstrip Antenna Design

International Conference on Antennas and Propagation

Modern Antenna Design

With communications technologies rapidly expanding, the traditional separation of electronic circuits and antenna systems design is no longer feasible. This book covers various design approaches applicable to integrated circuit-antenna modules with the goal of placing the antenna, transmitter, and receiver all on a single chip. It emphasizes analysis and design involving the integration of circuit functions with radiating elements and addresses trends in systems miniaturization.

Conference Proceedings, 19th European Microwave Conference 89

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Reference Data for Engineers is the most respected, reliable, and indispensable reference tool for technical professionals around the globe. Written by professionals for professionals, this book is a complete reference for engineers, covering a broad range of topics. It is the combined effort of 96 engineers, scientists, educators, and other recognized specialists in the fields of electronics, radio, computer, and communications technology. By providing an abundance of information on essential, need-to-know topics without heavy emphasis on complicated mathematics, Reference Data for Engineers is an absolute "must-have" for every engineer who requires comprehensive electrical, electronics, and communications data at his or her fingertips. Featured in the Ninth Edition is updated coverage on intellectual property and patents, probability and design, antennas, power electronics, rectifiers, power supplies, and properties of materials. Useful information on units, constants and conversion factors, active filter design, antennas, integrated circuits, surface acoustic wave design, and digital signal processing is also included. The Ninth Edition also offers new knowledge in the fields of satellite technology, space communication, microwave science, telecommunication, global positioning systems, frequency data, and radar. * Widely acclaimed as the most practical reference ever published for a wide range of electronics and computer professionals, from technicians through post-graduate engineers. * Provides a great way to learn or review the basics of various technologies, with a minimum of tables, equations, and other heavy math.

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