

Folded Unipole Antennas Theory And Applications

Proceedings of the National Communications ForumSWIEEEO Record of Technical PapersAntennas and PropagationProceedings - Institution of Radio EngineersSeventh International Conference on Antennas and Propagation, 15-18 April 1991Antenna Design for Mobile DevicesMicrowave JournalNational Association of Broadcasters Engineering HandbookInternational Symposium Digest, Antennas and PropagationAntenna Theory and DesignThe ARRL Antenna BookIRE WESCON Convention RecordCQTV and Other Receiving AntennasRadioThe Theory of Linear AntennasAntenna TheoryInternational Conference on Antennas and Propagation, 28-30 November, 19781957 IRE WESCON Convention RecordAntenna Theory and PracticeAntennasThe Physics and Chemistry of SolidsFolded Unipole Antennas: Theory and ApplicationsScientific and Technical Aerospace ReportsProceedingsSWIEEEO Record of Technical PapersScience AbstractsAntenna Theory and ApplicationsCQ; the Radio Amateur's JournalNaval Engineers JournalAntenna Theory and Design: The electrical design of antennaeAntenna Engineering Handbook, Fourth EditionProgress in Compact AntennasTeleThe Arrl Handbook for Radio Communications 2007The A.R.R.L. Antenna BookAntennasSeventh International Conference on Antennas and Propagation, 15-18 April 1991American Book Publishing RecordProceedings of the National Electronics Conference

Proceedings of the National Communications Forum

Practical, concise and complete reference for the basics of modern antenna design Antennas: from Theory to Practice discusses the basics of modern antenna design and theory. Developed specifically for engineers and designers who work with radio communications, radar and RF engineering, this book offers practical and hands-on treatment of antenna theory and techniques, and provides its readers the skills to analyse, design and measure various antennas. Key features: Provides thorough coverage on the basics of transmission lines, radio waves and propagation, and antenna analysis and design Discusses industrial standard design software tools, and antenna measurement equipment, facilities and techniques Covers electrically small antennas, mobile antennas, UWB antennas and new materials for antennas Also discusses reconfigurable antennas, RFID antennas, Wide-band and multi-band antennas, radar antennas, and MIMO antennas Design examples of various antennas are provided Written in a practical and concise manner by authors who are experts in antenna design, with experience from both academia and industry This book will be an invaluable resource for engineers and designers working in RF engineering, radar and radio communications, seeking a comprehensive and practical introduction to the basics of antenna design. The book can also be used as a textbook for advanced students entering a profession in this field.

SWIEEEO Record of Technical Papers

The NAB Engineering Handbook is the definitive resource for broadcast engineers.

It provides in-depth information about each aspect of the broadcast chain from audio and video contribution through an entire broadcast facility all the way to the antenna. New topics include Ultra High Definition Television, Internet Radio Interfacing and Streaming, ATSC 3.0, Digital Audio Compression Techniques, Digital Television Audio Loudness Management, and Video Format and Standards Conversion. Important updates have been made to incumbent topics such as AM, Shortwave, FM and Television Transmitting Systems, Studio Lighting, Cameras, and Principles of Acoustics. The big-picture, comprehensive nature of the NAB Engineering Handbook will appeal to all broadcast engineers—everyone from broadcast chief engineers, who need expanded knowledge of all the specialized areas they encounter in the field, to technologists in specialized fields like IT and RF who are interested in learning about unfamiliar topics. Chapters are written to be accessible and easy to understand by all levels of engineers and technicians. A wide range of related topics that engineers and technical managers need to understand are covered, including broadcast documentation, FCC practices, technical standards, security, safety, disaster planning, facility planning, project management, and engineering management.

Antennas and Propagation

This comprehensive text on antenna theory explains the origin of radiation and discusses antenna parameters in-depth. This book offers an in-depth coverage of fundamental antenna theory, and shows how to apply this in practice. The author discusses electromagnetic radiation and antenna characteristics such as impedance, radiation pattern, polarization, gain and efficiency. In addition, the book provides readers with the necessary tools for analyzing complex antennas and for designing new ones. Furthermore, a refresher chapter on vector algebra, including gradient, divergence and curl operation is included. Throughout the book ample examples of employing the derived theory are given and all chapters are concluded with problems, giving the reader the opportunity to test his/her acquired knowledge. Key Features: Covers the mathematical and physical background that is needed to understand electromagnetic radiation and antennas. Discusses the origin of radiation and provides an in-depth explanation of antenna parameters. Explores all the necessary steps in antenna analysis allowing the reader to understand and analyze new antenna structures. Contains a chapter on vector algebra, which is often a stumbling block for learners in this field. Includes examples and a list of problems at the end of each chapter. Accompanied by a website containing solutions to the problems (for instructors) and CST modeling files (www.wiley.com/go/visser_antennas). This book will serve as an invaluable reference for advanced (last year Bsc, Msc) students in antenna and RF engineering, wireless communications, electrical engineering, radio engineers and other professionals needing a reference on antenna theory. It will also be of interest to advanced/senior radio engineers, designers and developers.

Proceedings - Institution of Radio Engineers

Seventh International Conference on Antennas and Propagation, 15-18 April 1991

Antenna Design for Mobile Devices

Microwave Journal

National Association of Broadcasters Engineering Handbook

International Symposium Digest, Antennas and Propagation

Antenna Theory and Design

The ARRL Antenna Book

IRE WESCON Convention Record

CQ

TV and Other Receiving Antennas

Radio

The Theory of Linear Antennas

Antenna Theory

**International Conference on Antennas and Propagation, 28-30
November, 1978**

1957 IRE WESCON Convention Record

Antenna Theory and Practice

The comprehensive RF engineering reference.

Antennas

The Physics and Chemistry of Solids

Folded Unipole Antennas: Theory and Applications

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

Scientific and Technical Aerospace Reports

Proceedings

This edition contains 21 new chapters and a bonus eight page color insert, and new material on specialty antennas such as wideband patch antennas, antenna arrays, smart antennas, and more.

SWIEEEO Record of Technical Papers

Science Abstracts

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.

Antenna Theory and Applications

CQ; the Radio Amateur's Journal

Harness the Latest Advances in Folded Unipole Antenna Technology, Including New Detuning, Geophysical and Biomedical Applications Folded Unipole Antennas: Theory and Applications is the first comprehensive sourcebook on the design and uses of folded unipole antenna technology, featuring never-before-published mathematical equations and configurations. Written by Jeremy K. Raines, an internationally recognized antenna expert, this unique "one-stop" reference offers you a detailed account of the physics underlying the remarkably compact, broadband, and versatile folded unipole antenna, as well as mathematical models suitable for design and analysis. Filled with helpful illustrations, Folded Unipole Antennas features: Never-before-published electromagnetic field equations that remove obstacles to improving design and extending use A full chapter on detuning, a process that reduces radar scattering cross section and electronically eliminates structures causing unwanted radiation and interference A full chapter about arrays of folded unipoles, featuring a new and easier approach to describing the electromagnetic coupling between elements A wide range of folded unipole antenna applications, including detuning, multiplexing, geophysical prospecting, and biomedical sensing Inside This Landmark Antenna Engineering Guide • Introducing the Folded Unipole Antenna • The Simplest Configuration • The Two-Stage Unipole • The Three-Stage Unipole • The N-Stage Unipole • The Most General Configuration • Antenna End Effect and Top Loading • Arbitrary Cross Sections • Detuning • Arrays of Folded Unipoles • Present and Future Applications

Naval Engineers Journal

Antenna Theory and Design: The electrical design of antennae

Antenna Engineering Handbook, Fourth Edition

Progress in Compact Antennas

Tele

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.

The Arrl Handbook for Radio Communications 2007

The A.R.R.L. Antenna Book

Antennas

Seventh International Conference on Antennas and Propagation, 15-18 April 1991

American Book Publishing Record

Proceedings of the National Electronics Conference

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.

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