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The ARRL Guide to Antenna Tuners McGraw-Hill Professional Publishing

This comprehensive new resource guides professionals in the latest methods used when designing active integrated antennas (AIA) for wireless communication devices for various standards. This book provides complete design procedures for the various elements of such active integrated antennas such as the matching network, the amplifier/active element as well as the antenna. This book offers insight into how active integration and co-design between the active components (amplifier, oscillator, mixer, diodes) and the antenna can provide better power transfer, higher gains, increased efficiencies, switched beam patterns and smaller design footprints. It introduces the co-design approach of active integrated antennas and its superior performance over conventional methods. Complete design examples are given of active integrated antenna systems for narrow and wideband applications as well as for multiple-input-multiple-output (MIMO) systems. Readers find the latest design methods for narrow and broadband RF matching networks. This book provides a complete listing of performance metrics for active integrated antennas. The book serves as a complete reference and design guide in the area of AIA.

VHF and UHF Antennas Amer Radio Relay League

This is an extensively revised and updated new edition of the best-selling Mobile Antenna Systems Handbook. Comprehensive, authoritative and practical, it provides the information you need to understand the relationship between the elements involved in antenna systems design for mobile communications. You get sound advice in choosing the appropriate antenna for any given requirement - including antennas for ITS, access to the latest modeling formulas for macro, micro and pico cell propagation, and guidance on the latest RF safety standards and measurement techniques.

The ARRL Antenna Book American Radio Relay League (ARRL)

So many wire antenna designs have proven to be first class performers! Here are two volumes devoted to wire antennas, from the simple to the complex. Includes articles on dipoles, loops, rhombics, wire beams and receive antennas--and some time-proven classics! An ideal book for Field Day planners or the next wire antenna project at your home station.

RF Exposure and You Artech House

Now in an completely revised, updated, and enlarged Second Edition, Small Antennas in Portable Devices reviews recent significant theoretical and practical developments in the electrically small antenna area. Examining antenna designs that work as well as those that have limitations, this new edition provides practicing engineers and upper level and graduate students with new information on: work on improving bandwidth using spherical helix dipoles; work on electromagnetically coupled structures; exact derivation of the Q for electrically small antennas for both the TE and TM modes; and a new simplified Q formula.

Antenna Engineering Handbook American Radio Relay League

BOOST YOUR HAM RADIO'S CAPABILITIES USING LOW-COST ARDUINO MICROCONTROLLER BOARDS! Do you want to increase the functionality and value of your ham radio without spending a lot of money? This book will show you how! Arduino Projects for Amateur Radio is filled with step-by-step microcontroller projects you can accomplish on your own--no programming experience necessary. After getting you set up on an Arduino board, veteran ham radio operators Jack Purdum (W8TEE) and Dennis Kidder (W6DQ) start with a simple LCD display and move up to projects that can add hundreds of dollars' worth of upgrades to existing equipment. This practical guide provides detailed instructions, helpful diagrams, lists of low-cost parts and suppliers, and hardware and software tips that make building your own equipment even more enjoyable. Downloadable code for all of the projects in the book is also available. Do-it-yourself projects include: LCD shield Station timer General purpose panel meter Dummy load and watt meter CW automatic keyer Morse code decoder PS2 keyboard CW encoder Universal relay shield Flexible sequencer Rotator controller Directional watt and SWR meter Simple frequency counter DDS VFO Portable solar power source

The ARRL Handbook for Radio Communications, 2005 American Radio Relay League (ARRL)

THE DEFINITIVE ANTENNA REFERENCE--FULLY REVISED AND EXPANDED! Design and build your own antennas with the help of this unique guide.

Updated and revised to provide clear answers to questions frequently asked by hobbyists and electronics technicians, Practical Antenna Handbook, Fifth Edition blends theoretical concepts with hands-on experience--requiring only high school mathematics Reorganized to flow logically from broad physical principles to specific antenna design and construction techniques, the book begins by covering the fundamentals. Then the half-wave dipole is discussed both as an excellent antenna in its own right and as a conceptual tool for predicting the performance of other designs. Transmission line impedance matching techniques--and a companion Smith chart tutorial--lead into "must have" accessories for tuning, monitoring, and troubleshooting antenna system performance. Other tools, such as antenna modeling software and network analyzer add-ons for PCs and Macs, are addressed, and concluding chapters offer fresh insights into support structures and installation techniques. NEW TOPICS COVERED INCLUDE: Characteristics of all-driven and parasitic arrays Beverages and small MF/HF receiving loops Top-loaded shunt-fed towers and other verticals Theory and design of Yagi beams Effect of real ground on propagation and antenna patterns, impedance, and efficiency Lightning protection and four kinds of ground systems Zoning and restrictive covenants COVERS A WIDE VARIETY OF ANTENNAS: Dipoles and inverted-Vs Quads, delta, and NVIS loops Wire arrays (bobtail

curtain, half-square, rhombic) Verticals and shunt-fed towers Rotatable Yagi beams MF/HF receiving antennas (flag, pennant, K9AY, Beverage) Mobile and portable antennas VHF/UHF/microwave antennas And many more GO TO WWW.MHPROFESSIONAL.COM/CARR5 FOR: * Tables of worldwide geographic coordinates and antenna dimensions vs. frequency * Supplier updates * Author's blog * Additional photographs and schematics * Links to tutorials and specialized calculators

The ARRL Handbook for Radio Communications 2011 John Wiley & Sons

... by far the most extensively revised version of this work in ten years. And, for the first time, this edition is bundled with The ARRL handbook CD (version 9.0)--the fully searchable and complete book on CD-ROM (including many color images).

Antenna Toolkit John Wiley & Sons

Describes the VHF and UHF antennas for the 30-3000 Mhz range that have been developed over the past 50 years, including many designs that have not previously been treated in detail, and several new uses for old designs. Among the topics are methods of predicting and measuring the performance of antennas, and how it is affected by the local environment, both normal and adverse, and by the structures on which the antennas are mounted, both fixed and mobile (including humans). Addressed primarily to practicing antenna engineers; the basic theory is assumed to be known except for the less known types. Distributed by INSPEC. Annotation copyright by Book News, Inc., Portland, OR

The A. R. R. L. Antenna Book John Wiley & Sons

The contents of this book are mostly aimed at the amateur radio beginner and aspiring ones. Therefore, this book provides answers to basic questions like: What is the best HF antenna for my needs and location? What type of stand-alone antenna tuner should I use and which should I avoid? How can I hide my HF antenna from the neighbors and still get acceptable performance from it? What about lightning protection? This book will supply immediately useful answers to the above questions and many more. A properly designed and installed amateur radio HF antenna system can potentially make the humblest ham radio equipment perform like stations worth thousands of dollars. We are confident that the antenna experimenter will find the information given here priceless. Furthermore, any ham radio operator, armed with the information this book contains, will become a much better informed buyer of commercially made HF antenna systems and accessories. This special compendium edition is published in response to ham radio operators who wrote to ask that all the basic information, on and related to amateur radio HF antennas, be made available in one book instead of four, arguing that it would be more convenient. The author and publisher agree. Therefore this edition contains the complete four-book series on Amateur Radio HF Antennas published by Claude Jollet, VE2DPE.

Design and Applications of Active Integrated Antennas IET

Designed for use by the novice as well as the professional, this book/CD- ROM combo gives the reader all kinds of projects with material that explains why they work. A wide variety of antennae are covered: high frequency dipole, vertically polarized HF, multiband and tunable wire, hidden and limited space, directional phased vertical and directional beam, VHF/UHF transmitting and receiving, shortwave reception, microwave, mobile, marine and emergency. This third edition has new material on wire antenna construction methods, antenna modeling software, antennas for radio astronomy and Radio Direction Finding, and antenna noise temperature. Annotation copyrighted by Book News, Inc., Portland, OR.

The ARRL Handbook for Radio Communications American Radio Relay League (ARRL)

This handbook contains practical projects, antennas, and useful references for hams, engineers and researchers. Subjects covered include mathematics for amateur radio, safety practices, mixers, modulators and demodulators, propagation, circuit construction, and more.

The Radio Amateur's Handbook American Radio Relay League (ARRL)

If you're looking for a clear, comprehensive overview of basic electromagnetics principles and applications to antenna and microwave circuit design for communications, this authoritative book is your best choice. Including concise explanations of all required mathematical concepts needed to fully comprehend the material, the book is your complete resource for understanding electromagnetics in current, emerging and future broadband communication systems, as well as high-speed analogue and digital electronic circuits and systems.

ARRL's VHF Digital Handbook McGraw Hill Professional

Joe Carr has provided radio amateurs and short-wave listeners with the definitive design guide for sending and receiving radio signals with Antenna Toolkit 2nd edition. Together with the powerful suite of CD software, the reader will have a complete solution for constructing or using an antenna - bar the actual hardware! The software provides a simple Windows-based aid to carrying out the design calculations at the heart of successful antenna design. All the user needs to do is select the antenna type and set the frequency - a much more fun and less error prone method than using a conventional calculator to solve formulae. The new edition has been revised to include further cases of propagation, additional antennas and also two new chapters - Small Loop Antennas (a topic of considerable interest, which has been the subject of much recent debate in the amateur radio press); and Yagi Beam Antennas (widely used at HF and VHF). The CD software has also been updated. Joe Carr's expertise in the area of antenna design is legendary. Antenna designers, whether hobbyist or technician, can be assured they need look no further than Antenna Toolkit for the complete guide to understanding the practicalities of using and designing antennas today. A complete solution for antenna design in one package. Includes free CD-ROM with state of the art software for all design calculations. The definitive guide to antenna design for radio amateurs and short-wave listeners. *Antenna Physics* American Radio Relay League (ARRL)

Meet the FCC RF exposure regulations! It's not complicated! Learn how to operate your station safely and legally using simple step-by-step ARRL worksheets and tables.

The ARRL antenna compendium Arrl the National Association for Amateur Radio

Basic Antennas is a comprehensive introduction to antennas--basic concepts, practical designs, and details of easy-to-build antennas. You'll learn how to make antennas that really work. This book will provide a foundation in antenna theory and design necessary for anyone undertaking more advanced topics such as those presented in The ARRL Antenna Book. Includes: Dipole Antennas, Antenna Impedance, Transmission Lines, Practical Two Element Arrays, Wideband and Multiband Antennas Reflector Antennas, Yagis for HF and VHF, Loop Antennas, Antennas for Microwave Applications, Vehicle Antennas, Antenna Measurements, Plus, an Introduction to Antenna Modeling ... and much more!

The ARRL Antenna Book Amer Radio Relay League

This handbook has everything you need to design your own complete antenna system. This 23rd edition describes hundreds of antenna designs - wire, vertical, portable and mobile, and new high-performance VHF/UHF Yagi designs

Antenna Modeling for Beginners American Radio Relay League (ARRL)

Best engineer's reference on antennas. Table of Contents: Introduction to Antennas; Fundamentals of Antennas; Arrays of Discrete Elements; Dipoles and Monopoles; Loop Antennas; Small Antennas; Microstrip Antennas; Slot Antennas; Slot-Antenna Arrays; Leaky-Wave Antennas; Long-Wire Antennas; Surface-Wave Antennas and Surface-Wave Excited Arrays; Helical Antennas; Frequency-Independent Antennas; Horn Antennas; Lens Antennas; Reflector Antennas; Feeds for Lenses and Reflectors; Electromechanical Scanning Antennas; Frequency-Scan Antennas; Phased Arrays; Conformal and Low-Profile Arrays; Adaptive Antennas; Methods of Polarization Synthesis; Low-Frequency Antennas; Medium-Frequency Broadcast

Antennas; High-Frequency Antennas; VHF and UHF Communications Antennas; and more. Index. 800 illustrations.

Practical Antenna Handbook 5/e Artech House

... by far the most extensively revised version of this work in ten years. And, for the first time, this edition is bundled with The ARRL handbook CD (version 9.0)--the fully searchable and complete book on CD-ROM (including many color images).

The ARRL Antenna Compendium American Radio Relay League (ARRL)

Enjoy excellent coverage of baluns, an HF beam from PVC, low-band Yagis, quads and verticals, curtain arrays, and more!

Electromagnetics, Microwave Circuit, and Antenna Design for Communications Engineering Artech House

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.