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Handbook

Arrl Hf Digital Handbook

Based on the popular Artech House classic, Digital Communication Systems Engineering with Software-Defined Radio, this book provides a

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practical approach to quickly learning the software-defined radio (SDR) concepts needed for work in the field. This up-to-date volume guides readers on how to quickly prototype wireless designs using SDR for real-world testing and

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experimentation. This book explores advanced wireless communication techniques such as OFDM, LTE, WLA, and hardware targeting. Readers will gain an understanding of the core concepts behind wireless hardware, such as the radio

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frequency front-end, analog-to-digital and digital-to-analog converters, as well as various processing technologies. Moreover, this volume includes chapters on timing estimation, matched filtering, frame synchronization message

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decoding, and source coding. The orthogonal frequency division multiplexing is explained and details about HDL code generation and deployment are provided. The book concludes with coverage of the WLAN toolbox with OFDM beacon

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reception and the LTE toolbox with downlink reception. Multiple case studies are provided throughout the book. Both MATLAB and Simulink source code are included to assist readers with their projects in the field.

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Without complicated "owners manual" jargon, ARRL's VHF Digital Handbook presents the material through a unique how-to approach and friendly, conversational style. Readers will understand how to set up and operate their equipment and

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software, and make the best use of their VHF digital station.--Book cover.

ARRL's HF Digital Handbook
Modern HF Signal Detection and
Direction Finding
The A.R.R.L. Antenna Book

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ABCs of Software Defined Radio
The ARRL General Class License
Manual

Amateur Radio

***THE DEFINITIVE ANTENNA
REFERENCE--FULLY REVISED
AND EXPANDED! Design and***

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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,

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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

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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.

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Transmission line impedance matching techniques--and a companion Smith chart tutorial--lead into "must have" accessories for tuning, monitoring, and troubleshooting antenna system performance.

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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

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***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***

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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:

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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)

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***Mobile and portable antennas
VHF/UHF/microwave antennas
And many more GO TO WWW.M
HPROFESSIONAL.COM/CARR5
FOR: * Tables of worldwide
geographic coordinates and
antenna dimensions vs.***

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***frequency * Supplier updates *
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photographs and schematics *
Links to tutorials and specialized
calculators
2020 ARRL Handbook (softcover)
Radio Monitoring***

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American Book Publishing Record

A Radio Amateur's Guide to Open Source Electronics and Microcontroller Projects

The Radio Amateur's Hand Book

So many wire antenna designs have

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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

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book for Field Day planners or the next wire antenna project at your home station.

The gold-standard reference on the design and application of classic and modern antennas—fully updated to reflect the latest advances and

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technologies This new edition of the “bible of antenna engineering” has been updated to provide start-to-finish coverage of the latest innovations in antenna design and application. You will find in-depth discussion of antennas used in

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modern communication systems, mobile and personal wireless technologies, satellites, radar deployments, flexible electronics, and other emerging technologies, including 5G, terahertz, and wearable electronics. Antenna

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Engineering Handbook, Fifth Edition, is bolstered by real-world examples, hundreds of illustrations, and an emphasis on the practical aspects of antennas. Featuring 60 chapters and contributions from more than 80 renowned experts, this

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acclaimed resource is edited by one of the world's leading antenna authorities. This edition features all of the classic antenna types, plus new and emerging designs, with 13 all-new chapters and important updates to nearly all chapters from

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past editions. Antenna Engineering Handbook, Fifth Edition, clearly explains cutting-edge applications in WLANs, automotive systems, PDAs, and handheld devices, making it an indispensable companion for today's antenna

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practitioners and developers.

Coverage includes: •Antenna basics and classic antennas•Design approaches for antennas and arrays•Wideband and multiband antennas•Antennas for mobile devices and PDAs, automotive

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applications, and aircraft•Base station and smart antennas•Beamforming and 5G antennas•Millimeter-wave and terahertz antennas•Flexible, wearable, thin film, origami, dielectric, and on-chip

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antennas•MIMO antennas and phased arrays•Direction-finding and GPS antennas•Active antennas•Low-profile wideband antennas•Nanoantennas•Reflectors and other satellite and radio-telescope antennas•Low-frequency,

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HF, VHF, UHF, ECM, and ESM antennas•Impedance-matching techniques and material characteristics•Metastructured and frequency selective surfaces•Propagation and guided structures•Computational

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techniques and toolsets•Indoor and outdoor measurements

The Radio Amateurs' Journal

The Beginner's Guide to FT8, WSPR, PSK31, and More!

Why Your Next Radio Will be SDR

Now You're Talking!

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The Radio Amateur's Handbook
Fully updated, the second edition of Get on the Air with HF digital is a step-by-step guide that will get you started in the fascinating world of HF digital

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technology. Written in an easy to understand, conversational style, this book will show you how to set up and operate your own HF digital. The text includes instructions for configuring

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software programs for popular modes such as PSK31, RTTY. FT8 and JT65. You will also learn about other digital communication modes including MFSK, Olivia and WSPR.--Book cover.

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Amateur radio operators are finding themselves incorporating Software Defined Radio (SDR)- the latest big step in radio communications -into their operational activities. From

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basic low power rigs to the most powerful radios, they're all using SDR

technology.--Book cover.

The ARRL Handbook for Radio Communications

The Beginner's Guide to

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Handbook

PSK31, RTTY and More!
Ham Radio For Dummies
The ARRL Antenna
Compendium
The ARRL Handbook for
Radio Communications 2011
Respond to the call of ham radio

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Despite its old-school reputation, amateur radio is on the rise, and the airwaves are busier than ever. That's no surprise: being a ham is a lot of fun, providing an independent way to keep in touch with friends, family, and new acquaintances around the

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world—and even beyond with its ability to connect with the International Space Station! Hams are also good in a crisis, keeping communications alive and crackling during extreme weather events and loss of communications until regular systems

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like cell phones and the internet are restored. Additionally, it's enjoyable for good, old-fashioned tech geek reasons—fiddling with circuits and bouncing signals off the ionosphere just happens to give a lot of us a buzz! If one or more of these benefits is of

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interest to you, then good news: the new edition of Ham Radio For Dummies covers them all! In his signature friendly style, longtime ham Ward Silver (Call Sign NØAX)—contributing editor with the American Radio Relay

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League—patches you in on everything from getting the right equipment and building your station (it doesn't have to be expensive) to the intricacies of Morse code and Ohm's law. In addition, he coaches you on how to prepare for the FCC-mandated

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licensing exam and tunes you up for ultimate glory in the ham radio hall of fame as a Radiosport competitor!

With this book, you'll learn to: Set up and organize your station

Communicate with people around the world Prep for and pass the FCC

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exam Tune into the latest tech, such as digital mode operating Whether you're looking to join a public service club or want the latest tips on the cutting edge of ham technology, this is the perfect reference for newbies and experts alike—and will keep you

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*happily hamming it up for years!
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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*

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(including many color images).

Antenna Engineering Handbook

Ham Radio License Manual

Ham Radio

A Complete, Authentic and

Informative Work on Wireless

Telegraphy and Telephony

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The ARRL Ham Radio License Manual

The fundamental methods of radio frequency design using mathematics to develop intuition for RF circuits and systems are explained here with an emphasis on applications of simple circuit models. The book

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prepares readers to actually design HF, VHF and UHF equipment.

Radio Monitoring: Problems, Methods, and Equipment offers a unified approach to fundamental aspects of Automated Radio Monitoring (ARM). The authors discuss the development, modeling,

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design, and manufacture of ARM systems. Data from established and recent research are presented and recommendations are made on methods and approaches for solving common problems in ARM. The authors also provide classification and detailed descriptions of modern

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high-efficient hardware-software ARM equipment, including the equipment for detection, radio direction-finding, parameters measurement and their analysis, and the identification and localization of the electromagnetic field sources. Examples of ARM equipment

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structure, applications, and software are provided to manage a variety of complicated interference environment in the industrial centers, inside of the buildings, and in the open terrain. This book provides a reference for professionals and researchers

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interested in deploying ARM technology as a tool for solving problems from radio frequency spectrum usage control.

*Get on the Air with HF Digital
ARRL's VHF Digital Handbook
Projects and Advice for Limited-space Stations*

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Software-Defined Radio for Engineers

Arduino for Ham Radio

Step-by-step guide that will get you started in the fascinating world of HF digital technology. Written in an easy to understand, conversational

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style, this book will show you how to set up and operate your own HF digital. The text includes instructions for configuring software programs for popular modes such as RTTY, PSK31 and JT65. You will also learn about other digital

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communication modes including MFSK, Olivia and PACTOR.--Book cover.

Your how-to guide to become a ham Ham radio, or amateur radio, is a way to talk with people around the world in real-time, or to send

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email without any sort of internet connection. It provides a way to keep in touch with friends and family, whether they are across town or across the country. It is also a very important emergency communication system. When cell

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phones, landlines, the internet, and other systems are down or overloaded, Amateur Radio still gets the message through. Radio amateurs, often called "hams," enjoy radio technology as a hobby, but are often called upon to provide

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vital service when regular communications systems fail. Ham Radio For Dummies is your guide to everything there is to know about ham radio. Plus, this updated edition provides new and additional information on digital mode

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operating, as well as use of amateur radio in student science and new operating events. • Set up your radio station • Design your ham shack • Provide support in emergencies and communicate with other hams • Study for the

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licensing exam and choose your call sign If you're looking to join a college radio club or just want to learn the latest tips and tricks, this book is a helpful reference guide to beginners, or those who have been "hams" for years.

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*Problems, Methods and Equipment
ARRL's Small Antennas for Small
Spaces
For Radio Communications
Australian Ham Radio Handbook
All You Need to Get Your First Ham
Radio License*

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Before delving into the mysteries of receiving and sending messages without wires, a word as to the history of the art and its present day applications may be of service. While popular interest in the subject has gone forward leaps and bounds within the last two or three years,

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it has been a matter of scientific experiment for more than a quarter of a century. The wireless telegraph was invented William Marconi, at Bologna, Italy, in 1896, and in his first... (more)
This handbook has everything you need to design your own complete antenna

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system. This 23rd edition describes hundreds of antenna designs - wire, vertical, portable and mobile, and new high-performance VHF/UHF Yagi designs

CQ

Everything You Need to Succeed in

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Amateur Radio

Practical Antenna Handbook 5/e

More Wire Antenna Classics

The ARRL Operating Manual for Radio Amateurs

Detailed descriptions of detection, direction-finding, and signal-

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estimation methods, using consistent formalisms and notation, emphasizing HF antenna array sensing applications. Adaptive antenna array technology encompasses many powerful interference suppression approaches

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that exploit spatial differences among signals reaching a radio receiver system. Today, worldwide propagation phenomenology occurring in the High Frequency (HF) radio regime has made such interference common. In this book,

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Jay Sklar, a longtime researcher at MIT Lincoln Laboratory, presents detailed descriptions of detection, direction-finding, and signal-estimation methods applicable at HF, using consistent formalisms and notation. Modern electronic system

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technology has made many of these techniques affordable and practical; the goal of the book is to offer practicing engineers a comprehensive and self-contained reference that will encourage more widespread application of these

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approaches. The book is based on the author's thirty years of managing MIT Lincoln Laboratory work on the application of adaptive antenna array technologies to the sensing of HF communication signals. After an overview of HF propagation

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phenomenology, communication signal formats, and HF receiver architectural approaches, Sklar describes the HF propagation environment in more detail; introduces important modulation approaches and signaling protocols

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used at HF; discusses HF receiver system architectural features; and addresses signal processor architecture and its implementation. He then presents the technical foundation for the book: the vector model for a signal received at an

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adaptive array antenna. He follows this with discussions of actual signal processing techniques for detection and direction finding, including specific direction-finding algorithms; geolocation techniques; and signal estimation.

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The most popular introduction to amateur radio, this guide offers a unique mix of technology, public service, convenience, and fun. All levels of ham radio operators can brush up on their skills and use the book to study for their first license

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exam with the latest questions pool with answer key.

The ARRL Antenna Book

All You Need to Become an Amateur Radio Operator. Technician]. Level 1

Arrl's FCC Rule Book

ARRL's Low Power Communication

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The ARRL Handbook for Radio Communications, 2005

All you need for your first amateur radio license.

This handbook contains practical projects, antennas, and useful references for hams, engineers and researchers. Subjects covered include

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mathematics for amateur radio, safety practices, mixers, modulators and demodulators, propagation, circuit construction, and more.

The Radio Amateur's Hand Book
(Annotated)

Introduction to Radio Frequency
Design

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The ARRL Handbook for the Radio Amateur