

Advancing the Art, Science, and Enjoyment of Radio—Since 1914

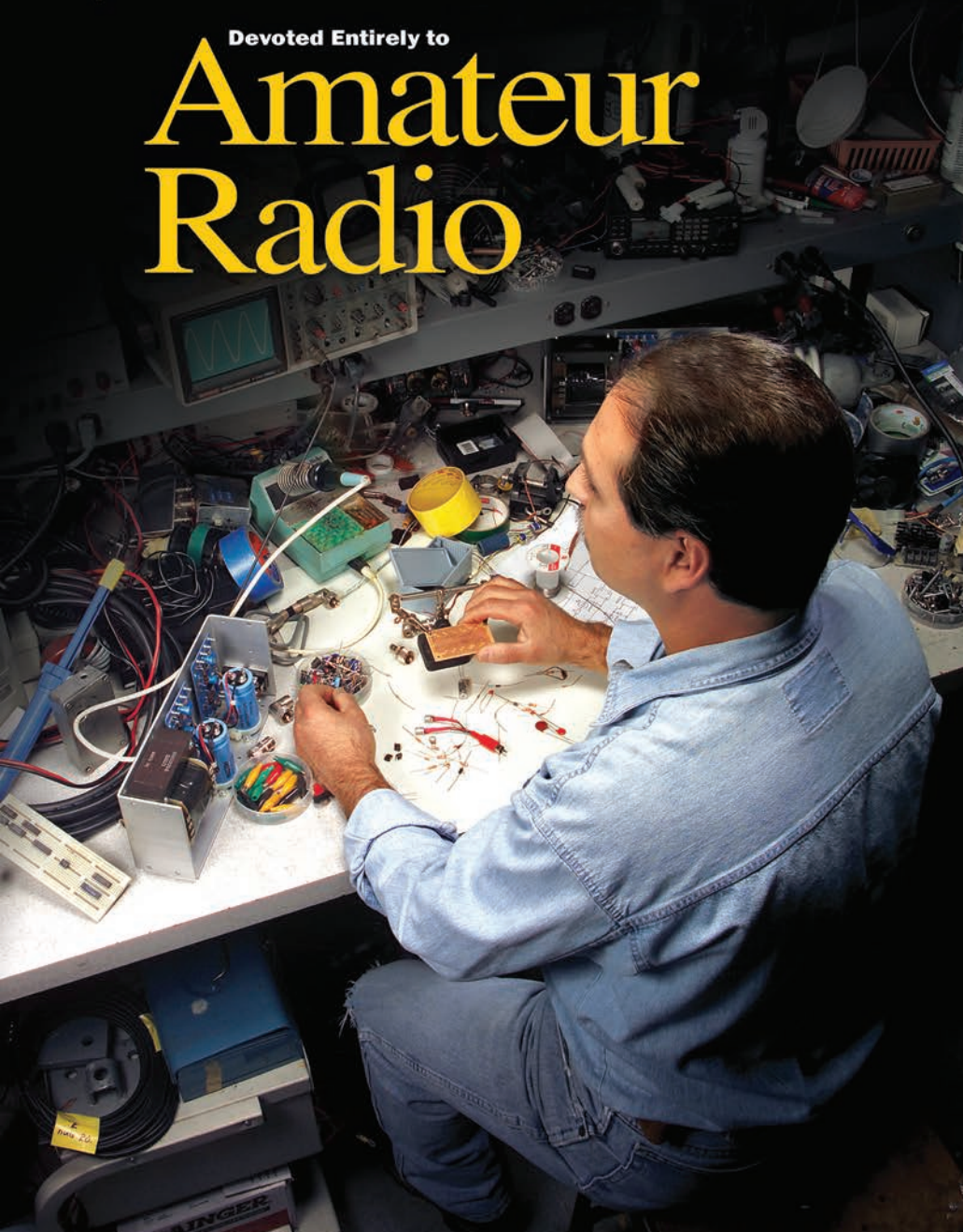


ARRL The national association for
AMATEUR RADIO[®]
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Publications and Products
Fall 2015 – Winter 2016

Devoted Entirely to

Amateur Radio



Operating

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The ARRL Operating Manual 10th Edition

Item No. 5965 – \$34.95

ARRL Member Price! \$29.95

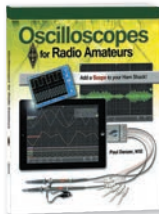
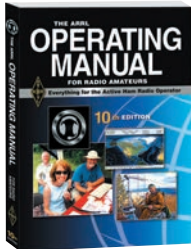
The ARRL Operating Manual

is the most complete guide to Amateur Radio operating. It has everything you need to know about ham radio operating—from exploring the broad range of activities, to sharpening your on-air skills. It's filled with information every ham needs, from newcomers looking for basic operating techniques to more experienced hams looking for new things to do with their gear.

Whether your interests are more technical or public service oriented, you'll turn to **The Operating Manual** for information on **what to operate, where to operate and how to operate.**

Table of Contents:

- Amateur Radio
- All About Operating
- VHF/UHF
- VHF/UHF
- Disaster, Public Service and Emergency Communications
- Traffic Handling
- DXing
- Contesting
- Competitive Wireless
- HF Digital Communications
- Image Communications
- Amateur Satellites
- Legally, Safely, Appropriately
- The FCC Rules and You
- Remote Station Control Over the Internet
- Operating Awards
- References



Oscilloscopes for Radio Amateurs

Item No. 0976 – \$22.95

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Filled with practical information you'll need for using a scope. It begins with an overview of the oscilloscope and continues on to discuss characteristics, applications, probes, controls, and input modes. Select an oscilloscope that is right for you!

The digital edition is available in the Kindle format from Amazon.

Discover Ham Radio e-book

This booklet is an overview of Amateur Radio and all it has to offer. It discusses the various aspects of the fascinating hobby, provides information about how to pursue your first ham radio license, and how to get started.

E-book is available for only \$2.99 in the Kindle format from Amazon.



Your First Amateur Radio HF Station

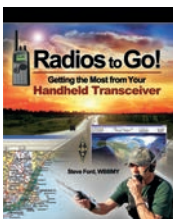
Steve Ford, WB8IMY

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The most complete guide to setting up your station and getting started in HF communications. Whether you're new to Amateur Radio or HF operating, live on acres of open property or in a tiny apartment, this book will show you how to get on the air and enjoy all that Amateur Radio has to offer.

The digital edition is available in the Kindle format from Amazon.



Radios to Go!

Getting the Most from your Handheld Transceiver
Steve Ford, WB8IMY

Item No. 3077 – \$17.95

ARRL Member Price! \$15.95

If you own a handheld transceiver, or trying to decide which one to buy, this is an essential guide! Unlock "hidden" capabilities that aren't described in user manuals.

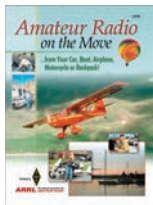
The digital edition is available in the Kindle format from Amazon.

Amateur Radio on the Move

—from Your Car or RV,
Boat, Airplane, Motorcycle
or Backpack!

Item No. 9450 – \$19.95

Expert advice for radio operating on the go! Mobile radios, installation, antennas, operating tips, software and more.



FCC Rules and Regulations for the Amateur Radio Service

3rd Edition

Item No. 1173 – \$5.95

Includes the complete Part 97 rules from Title 47 of the Code of Federal Regulations. Rules effective September 3, 2014.

ARRL Software Library for Hams

CD-ROM, version 4.0

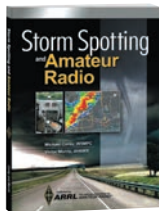


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ARRL Member Price! \$19.95

Quick access to utilities, applications and information: Software defined radio, station logging, digital operating, CW decoding, image editing and more.

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Storm Spotting and Amateur Radio

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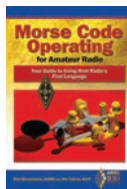
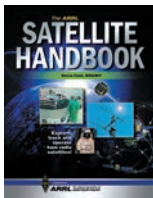
A resource for Amateur Radio operators who volunteer as trained storm spotters. Includes equipment, safety, storm spotter activation procedures, developing a local storm spotter manual, and the experiences of storm spotters from around the country.

The ARRL Satellite Handbook

Steve Ford, WB8IMY

Item No. 9857 – \$24.95

Bring the thrill of satellite communications within your reach! Filled with understandable descriptions and illustrations, this book includes all the tools you need to participate in this exciting field.



Morse Code Operating for Amateur Radio

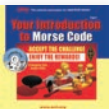
Item No. 0004 – \$17.95
ARRL Member Price! \$15.95

Discover the advantages to learning and using Morse code, how to set up your station for CW and how to adjust your Morse code key. You'll gain the confidence you need to try out your new skills on the air!

Your Introduction to Morse Code

Item No. 8314 – \$12.95

Don't just learn the code—master it! This set includes two audio CDs with nearly 2-1/2 hours of practice. As you learn Morse code at 5 words-per-minute. Follow the proven ARRL teaching system.



ARRL Morse Code Oscillator Kit

Item No. 0022 – \$24.95

A great "beginners" electronics kit! Ideal for ARRL members, Amateur

Radio newcomers and instructors seeking a classroom kit-building experience.

Morse Code Key

Item No. 0242 – \$15.95

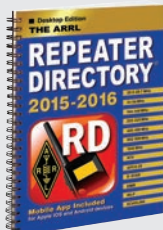
Explore the fun of Morse code! This Morse code straight key includes an adjustment for tension and an adjustment for gap size. The base includes mounting holes. For use with ARRL's Morse Code Oscillator Kit (sold separately).



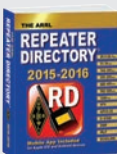
The ARRL Repeater Directory® 2015-2016 Edition

The best directory of frequencies for the thousands of repeaters around the country!

- **Mobile App included** – enjoy 12 months of the full version app!
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- Repeater notes located right up front.



Desktop Edition
Easy-to-Read
Size (6 x 9 inches)



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(3.75 x 5.25 inches)

Pocket-sized
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Download an app to access **The ARRL Repeater Directory®** database from your Android phones and tablets.

Purchase your activation code from ARRL, then visit Google Play™ to download the free application. Grab your phone and go!

Please note: Apple iOS users must purchase *The ARRL Repeater Directory* (book and app) in order to access the full version of *The ARRL Repeater Directory App*.



TravelPlus for Repeaters™

CD-ROM, version 19.0

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Make **TravelPlus** your traveling companion, and you'll never be alone on the road. Use the integrated maps and repeater data to locate repeaters along your travel route. It's like having the power of **The ARRL Repeater Directory®** on your **COMPUTER!**

Requires Microsoft Windows™ XP or Vista. GPS feature requires a GPS device. Upgrade available for previous customers. Contact ARRL for details.



TravelPlus Mobile GPS™

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It's like having the power of **The ARRL Repeater Directory®** on your Garmin GPS!

For more information and to place an order visit www.arrl.org/shop. You will receive an email confirmation with instructions for downloading and installing to your GPS.

Minimum System Requirements: Garmin nüvi, dēzl or zūmo GPS with at least 3.0 MB free memory space available for a POI file.



The ARRL Handbook 2016 Edition

Hardcover. Book with CD-ROM
Item No. 0420 – \$49.95
(retail \$59.95)

Softcover. Book with CD-ROM
Item No. 0413 – \$49.95

The ARRL Handbook is a valued reference for radio electronics and wireless communications. Since 1926, it has kept radio amateurs, professionals, and experimenters immersed in applied theory and do-it-yourself projects. It covers a wealth of information: the fundamentals of electronics and radio signals, construction practices, antennas and propagation, equipment and circuit design, and other useful reference information.

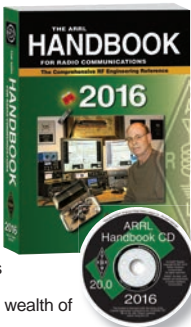


Table of Contents:

Introduction

- What is Amateur (Ham) Radio

Fundamental Theory

- Electrical Fundamentals
- Analog Basics
- Digital Basics

Practical Design and Principles

- RF Techniques
- Computer-Aided Circuit Design
- Power Supplies
- Modulation
- Oscillators and Synthesizers
- Mixers, Modulators and Demodulators
- RF and AF Filters
- Receivers
- Transmitters
- Transceivers
- Transmitters
- Telemetry and Navigation
- DSP and Software Radio Design
- Digital Modes
- RF Power Amplifiers
- Repeaters

Antenna Systems and Radio Propagation

- Propagation of Radio Signals
- Transmission Lines
- Antennas

Equipment Construction and Maintenance

- Component Data and References
- Construction Techniques
- Station Accessories
- Test Equipment and Measurements
- Troubleshooting and Maintenance
- RF Interference

Station Assembly and Management

- Safety
- Assembling a Station

Operating Supplement – on CD-ROM

- Space, Digital, Image Communications
- 2016 Annual Transceiver Survey



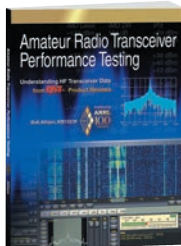
*The Comprehensive
RF Engineering
Reference*

Amateur Radio Transceiver Performance Testing

Understanding HF transceiver Data from QST Product Reviews

Bob Allison, WB1GCM
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Learn the technical terms and parameters presented in QST's Product Review, how published data relates to actual performance, and what the numbers mean. Great for Amateur Radio operators looking to purchase a transceiver.



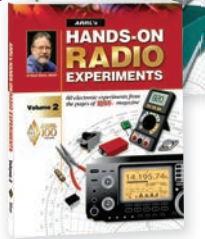
ARRL's Hands-On Radio Experiments

Ward Silver, NØAX

Volume 2
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ARRL Member Price! \$22.95

Volume 1
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Over 60 short electronics experiments from the pages of QST. Step-by-step Silver expertly leads you through each experiment—and you'll make discoveries along the way. Each book includes a complete parts list!



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Explore wide dynamic range, low distortion radio equipment, the use of direct conversion and phasing methods, and digital signal processing. Use the models and discussion to design, build and measure equipment at both the circuit and the system level. **CD-ROM included.**



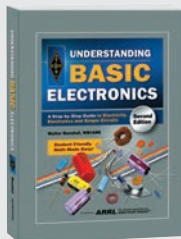
L/C/F and Single-Layer Coil Winding Calculator

Item No. 9123 – \$12.95

Handy slide rule when tinkering with filters, oscillators, impedance matching circuits or antenna coils. Quick and easy circuit calculations.



ARRL "Basic" Book Series

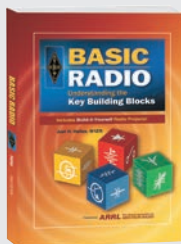


Understanding Basic Electronics

2nd Edition
Item No. 0823 – \$32.95
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Written in a friendly, easy-to-understand style that beginners and nontechnical readers will enjoy. Real-world examples and clear illustrations make the study of electronics interesting and fun!

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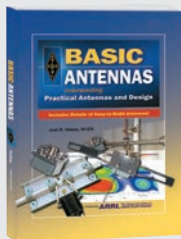


Basic Radio

Understanding the Key Building Blocks

Joel R. Hallas, W1ZR
Item No. 9558 – \$29.95

An introduction to radio for everyone. Reveals the key building blocks of radio: receivers, transmitters, antennas, and propagation. Simple, build-it-yourself projects turn theory into practice.



Basic Antennas

Understanding Practical Antennas and Design

Joel R. Hallas, W1ZR
Item No. 9994 – \$29.95

A comprehensive introduction to antennas. Includes basic concepts, practical designs, and easy-to-build antennas. You'll learn how to make antennas that really work!

Collect the Entire Set!

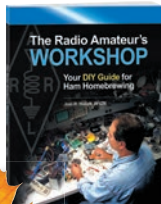
The Radio Amateur's Workshop

Your DIY Guide to Ham Radio Homebrewing

Joel R. Hallas, W1ZR
Item No. 0482 – \$22.95
ARRL Member Price! \$19.95

Your guide to setting up and maintaining an efficient at-home laboratory and work station. It describes the tools

you'll need for projects ranging from assembling electronic kits to building and testing antennas.



Arduino for Ham Radio

Glen Papiel, KW5GP
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An introduction to Arduino microcontrollers and practical projects for the Amateur Radio station. It starts by building a solid foundation through descriptions of various Arduino boards and add-on components, followed by a collection of ham radio-related practical projects.



Ham Radio for Arduino and PICAXE

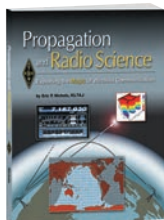
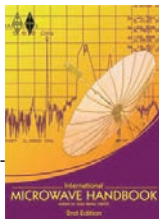
Item No. 3244 – \$34.95
ARRL Member Price! \$29.95

An introduction to the fun of experimenting with microcontrollers. Features projects that will enhance your ham radio station and operating capabilities. Or, you can take it to the next step, using these projects as a launch pad for creating your own projects.

International Microwave Handbook

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Fundamental principles to designing and constructing equipment for microwave bands. Includes operating techniques, system analysis and propagation, microwave antennas, transmission lines, semiconductors and more.



Propagation and Radio Science

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ARRL Member Price! \$24.95

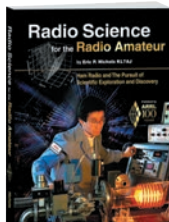
This book covers topics ranging from theoretical exploration to practical application. It explains the phenomenon we observe on the amateur bands and invites you to embark on the journey through the still-unknown radio propagation universe.

The digital edition is available in the Kindle format from Amazon.

Radio Science for the Radio Amateur

Item No. 3381 – \$27.95
ARRL Member Price! \$24.95

Explore the science and technology and "hooks and crannies" of the radio universe. You'll find solving long-standing mysteries of radio doesn't require expensive hardware, but a scientific mindset and attention to detail.



4 Technical

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ARRL's Low Power Communication

4th Edition

Rich Arland, K7SZ

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Your guidebook to the fascinating world of low power QRP operating. With only 5 W or less — sometimes much less — you can enjoy conversations over hundreds and even thousands of miles. **Bonus!** Includes the complete assembly manual for the MFJ Cub Transceiver Kit (sold separately).

Get the Book with the Kit!

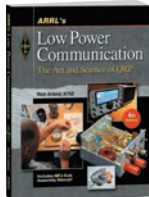
ARRL's Low Power Communication with 40-meter CW Cub Transceiver Kit.

Item No. 5828K – \$105.95

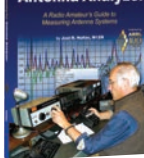
Build the kit in just a few hours, and you'll be working the world with low-power fun!

20-meter CW Cub Transceiver Kit. Book sold separately.

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Understanding Your Antenna Analyzer



Understanding Your Antenna Analyzer

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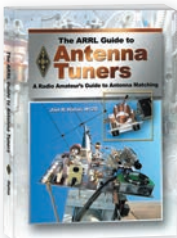
An introduction to the various types of analyzers available, their component parts, how they operate and how to utilize them to get the best possible data. Includes product review testing and an in depth look at antenna analyzers available today.

The ARRL Guide to Antenna Tuners

A Radio Amateur's Guide to Antenna Matching

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Explore the design, construction and applications of the different types of antenna tuners. You'll gain a better understanding of your antenna system and the way it can be improved through the use of the appropriate antenna tuner.



Hints and Kinks for the Radio Amateur

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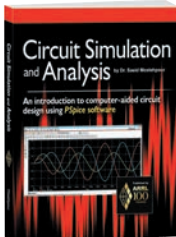
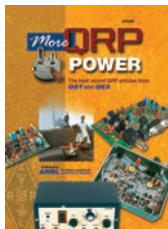
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8 years of the best projects and problem-solving techniques from QST's **Hints & Kinks** column, one of the most popular sections of the journal. Projects and practical information you can use every day!

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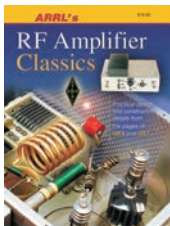
ARRL Member Price! \$24.95

An introduction to designing and testing simple circuits using PSpice software. It discusses the tools you'll need to create simple circuits and understand their behavior. For beginners in PSpice with a background in basic electronics.

ARRL's RF Amplifier Classics

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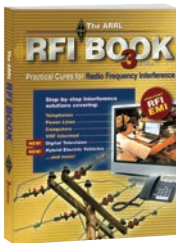
Two-dozen projects and articles to help shorten your discovery work. There are amps for HF, MF, VHF and microwave. Build safe and reliable amplifiers. Produce loud and clean signals!



RF Exposure and You

Item No. 6621 – \$22.95

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 RFI Book

3rd Edition

Item No. 0915 – \$29.95

Interference solutions covering telephones, power lines, computers and audio equipment. Resources for addressing new realities of digital cable TV systems, over-the-air TV signals, trouble-shooting, and hybrid and all-electric automobiles.

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The ARRL Antenna Book 23rd Edition

Hardcover. Book with CD-ROM
Item No. 0390 – \$49.95
(retail \$59.95)

Softcover. Book with CD-ROM
Item No. 0444 – \$49.95

The ARRL Antenna Book has everything you need to design your own complete antenna system. Since 1939, it has maintained its place at the forefront—a single resource covering antenna theory, design and construction, and practical treatments and projects. It describes hundreds of antenna designs: wire, vertical, portable and mobile, and new high-performance VHF/UHF/Yagi designs.

Table of Contents:

Basic Antenna Topics

- Antenna Fundamentals
- Effects of Ground
- Loop Antennas
- Log Periodic Dipole Arrays
- Dipoles & Ground-Planes
- Radio Wave Propagation
- Multielement Arrays
- Antenna Modeling

MF and HF Antennas

- Single-Band MF and HF Antennas
- Multiband HF Antennas
- HF Yagi and Quad Antennas
- Broadside and End-Fire Arrays
- Long-Wire and Traveling-Wave Antennas
- HF Antenna System Design

VHF, UHF, and Microwave Antennas

- VHF and UHF Antenna Systems
- Mobile VHF and UHF Antennas
- Space Communications Antenna Systems
- Repeater Antenna Systems

Special Applications

- Portable Antennas
- Stealth and Limited Space Antennas
- Mobile and Maritime HF Antennas
- Receiving and Direction-Finding Antennas

Transmission Lines

- Transmission Lines
- Transmission Line System Techniques

Building and Maintaining Antenna Systems

- Antenna Materials and Construction
- Putting Up Towers and Antennas
- Antenna and Transmission Line Measurements
- Antenna System Troubleshooting

The Care and Feeding of Transmission Lines

Joel Hallas, W1ZR
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ARRL Member Price! \$24.95

An introduction to the various types of transmission lines, key parameters of coaxial cable and balanced line types. Learn how to select the appropriate transmission line for an application and install it.

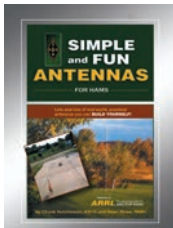
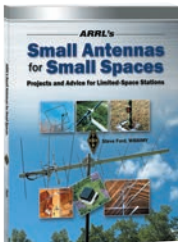


Small Antennas for Small Spaces

Steve Ford, WB8IMY
Item No. 8393 – \$25.95
ARRL Member Price! \$22.95

A resource for radio amateurs who live in apartments, condominiums, or houses on small lots. Filled with practical advice, you'll find the right antenna design to fit your space available.

The digital edition is available in the Kindle format from Amazon.



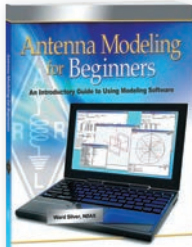
Simple and Fun Antennas for Hams

Item No. 8624 – \$22.95
More than 70 well-tested, fun and entirely useful projects. Hundreds of photos and illustrations. Build your first VHF or HF antenna. Explore dipoles, verticals, beams and more. These antennas really work!

Antenna Modeling for Beginners

Ward Silver, N0AX
Item No. 3961 – \$38.95
ARRL Member Price! \$34.95

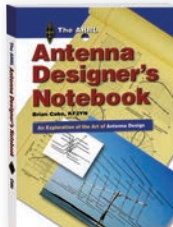
A guide to using modeling software for designing and evaluating antennas. It provides an introduction to EZNEC, the most popular antenna modeling program used by radio amateurs today.



Antenna Designer's Notebook

Brian Cake, KF2YN
Item No. 1479 – \$34.95

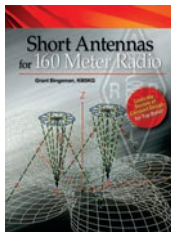
Open a window into the mind of the antenna designer as the design is imagined, perfected, and constructed. It provides a thorough description of new components of antennas and the C-pole – and practical antennas made from them. CD-ROM included!



Short Antennas for 160 Meter Radio

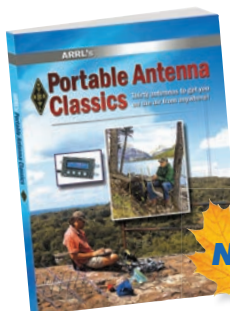
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6 Antennas

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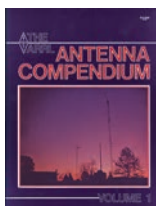
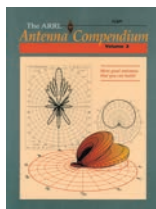


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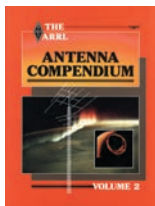
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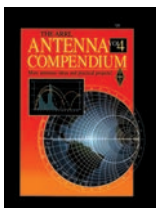
Covers a wide range of antenna types and related topics, including innovative verticals, an attic tri-bander, antenna modeling and propagation.



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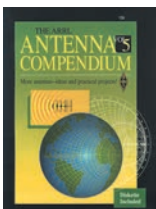
38 articles covering a wide range of topics. Includes simple, practical antenna projects, and heavy-duty, theoretical treatments of complex arrays.



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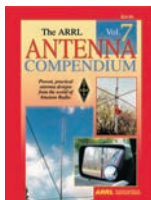
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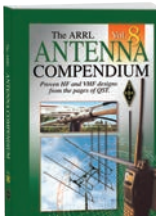
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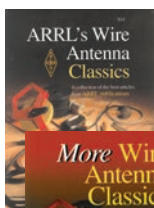


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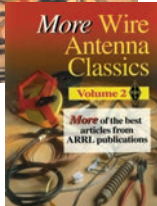


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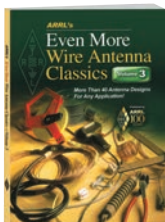


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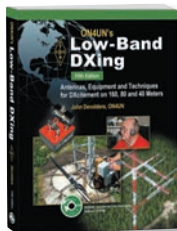
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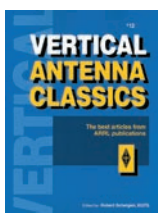


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John Devoldere, ON4UN
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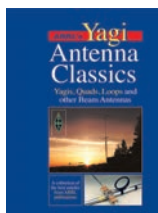
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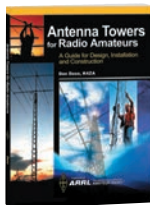
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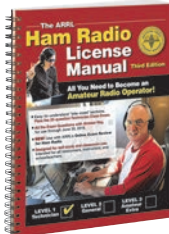
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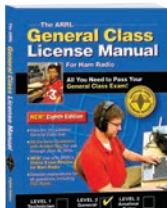
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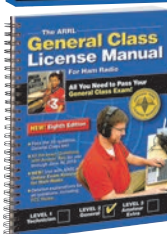
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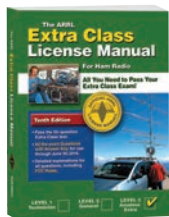
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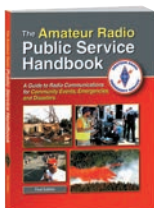
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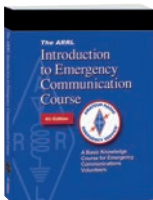


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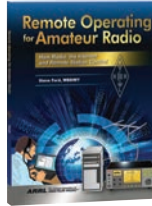
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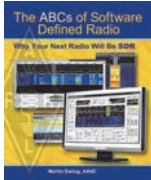
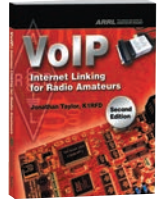
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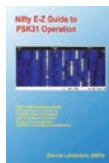
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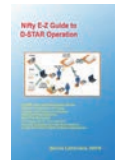
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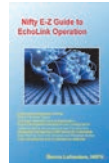
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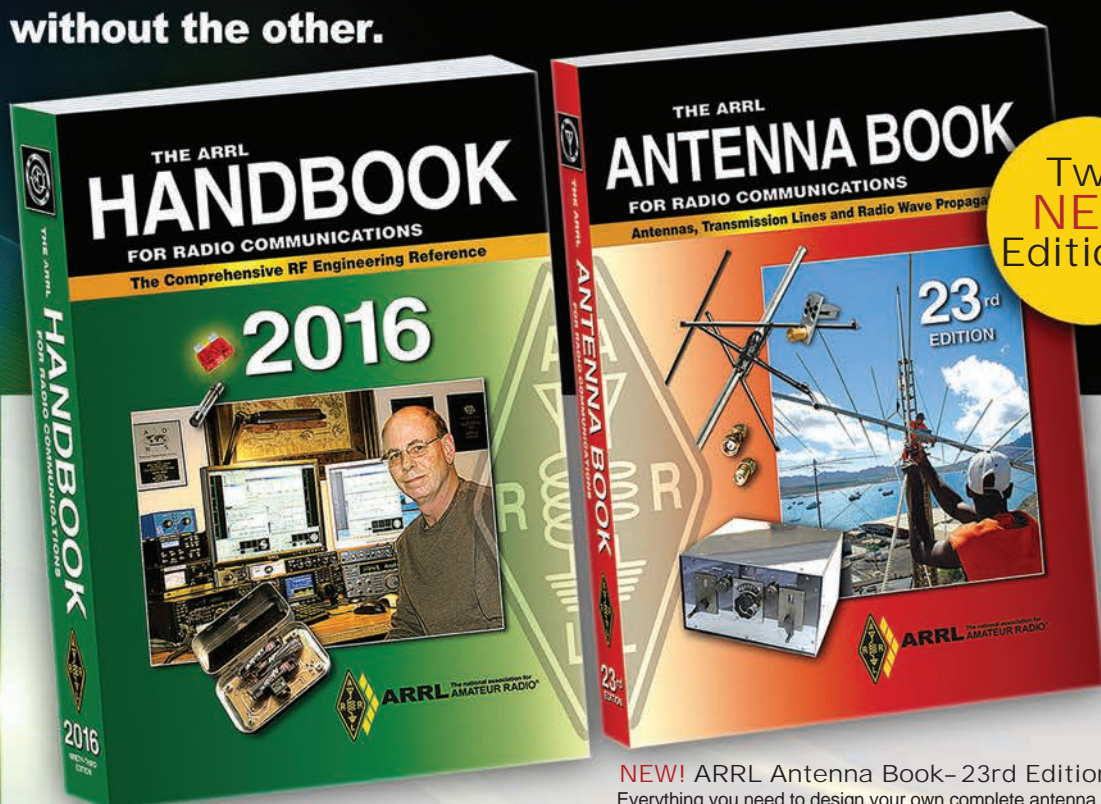


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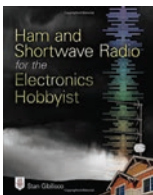


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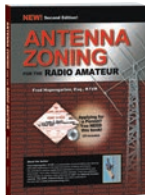


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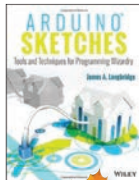
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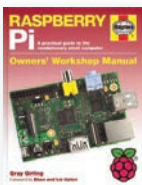
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Design and build your own antennas! Provides clear answers to questions frequently asked by hobbyists and electronics technicians, while bending theoretical concepts with hands-on experience.



Tower Climbing Safety & Rescue

4th Edition

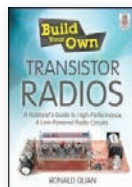
Item No. 1108 – \$29.95

Essential for Tower Riggers and Technicians, Radio Amateurs, Supervisors and Project Managers. Includes environmental hazards, structure hazards, tools and tasks, safety equipment, rescue and more.

Build Your Own Transistor Radios

Item No. 1367 – \$50

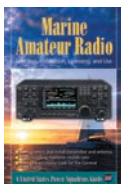
A hobbyist's guide to designing and building high-performance and low-powered radios. Includes complete projects and detailed schematics.



Up the Tower

Item No. 1260 – \$35

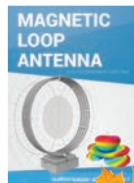
The complete guide to tower construction. Over 220 pages of facts, techniques, hardware and lots of answers to your tower construction questions.



Marine Amateur Radio

Item No. 9723 – \$12.95

Use ham radio for coastal, high-seas, or worldwide communications. Select, install, and operate a ham radio system on any boat, power or sail. Produced by United States Power Squadrons.



Magnetic Loop Antenna

ARRL Item No. 2002 – \$20

Explains the theory, mathematically of the antennas magnetic and electric field principles. A variety of magnetic-loop antennas are included.



"For Dummies" Series

Ham Radio for Dummies



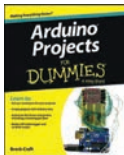
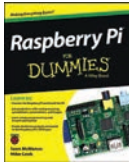
Ward Silver, N0AX
2nd Edition
Item No. 0502 – \$24.99

This beginner guide reflects the operational and technical changes to Amateur Radio over the past decade. Includes licensing requirements, changes in digital communication, and using e-mail via radio.

Raspberry Pi for Dummies

Item No. 2945 – \$24.99

Embrace the exciting new technology of Raspberry Pi! You'll quickly discover how to download and install the operating system, use the installed applications, and much more.



Arduino Projects for Dummies

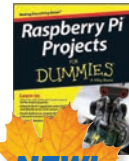
Item No. 8102 – \$29.99

Featuring an array of projects, this beginner guide walks you through each one so you can acquire a clear understanding of the different aspects of the Arduino board. Turn everyday electronics and simple old projects into incredible innovations!

Raspberry Pi Projects for Dummies

Item No. 0034 – \$24.99

Join the Raspberry revolution with fun and easy Pi projects. This book introduces Raspberry Pi basics and gives you a solid understanding of all the essentials you'll need to take on your first project.



Arduino for Dummies

Item No. 7000 – \$24.99

Leap into the fascinating world of physical computing. You'll discover how to build a variety of circuits that can sense or control real-world objects, prototype your own product, and even create interactive artwork. What you make is up to you!

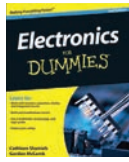


Electronics for Dummies

2nd Edition

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Make something fascinating of electronics. Learn how electricity functions, how to put it to work, what tools you need to build circuits, what you can make with them.



The Secret Wireless War

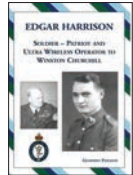
Softcover Edition
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The most complete book yet written on Britain's secret radio communications during WWII. It's an extraordinary story that includes hams among those patriots that undoubtedly helped the allied war effort.

Edgar Harrison

Soldier, Patriot and Ultra Wireless Operator to Winston Churchill
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A remarkable story of Edgar Harrison and the adventures he encountered throughout WWII.



Inside Enigma

Item No. 0611 – \$19.95

Secrets of the Enigma machine! How they were used, how the messages were coded and why the code was unbreakable.

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- Electronics All-in-One for Dummies. Item No. 0196..... \$24.95
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- Heil Ham Radio Handbook Item No. 7238..... \$14.95
- Hiram Percy Maxim. Item No. 7016..... \$19.95
- Instruments of Amplification. Item No. 9163..... \$19.95
- Keys II: The Emporium. Item No. 1372..... \$16
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Radio Communication Handbook

12th Edition

Item No. 2040 – \$59.95

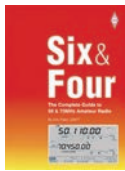
Everything you need to build or understand amateur radio equipment. Expanded chapters cover HF Transmitters and Receivers, LF, Microwaves, VHF/UHF Antennas, and more. CD-ROM included! 864 pages.



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Explore the excitement of the "magic band" with this complete guide to 6 meters, as well as 4 meters. With new countries gaining temporary or permanent access on a regular basis, you'll discover both bands are exciting and fun! 288 pages.

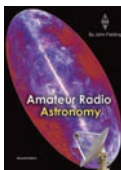


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The fascinating story of the radio amateurs who discovered this mode of propagation and how they made use of it. Includes details of how auroras are caused, how they can be forecast, and how best to use them to work DX. 64 pages.

Radio Nature

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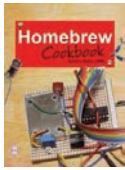
A fascinating look at naturally originating radio signals. Includes signal descriptions, explanations of where they come from, and the proper way to receiving and analyzing them. 256 pages.



Homebrew Cookbook

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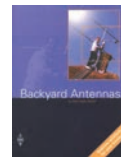
Features a number of construction projects including receiver designs, simple circuits, and SSB transmitters. Projects use simple techniques with obtainable components. 208 pages.



Backyard Antennas

Item No. RBYA – \$34.95

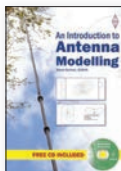
With simple techniques, you can build high performance antennas. Create compact multi-band antennas, end-fed and center-fed antennas, rotary beams, loops, tuning units, VHF/UHF antennas, and more! 208 pages.



An Introduction to Antenna Modeling

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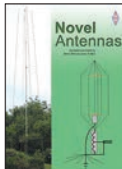
Learn how to input antennas designs into MMANA-GAL, adapt designs you are given and optimize your designs for the best performance. Learn how to model a whole host of antennas including dipoles, the G5RV, the W3DZZ trapped dipole, verticals, magnetic loop antennas and more. 80 pages.



Novel Antennas

Item No. 0033 – \$24.95

Radio Amateurs experiment with antennas to get the best performance they can. Few have ever considered anything beyond basic antenna designs - this book tries to set that right with a myriad of 'novel' antenna designs from around the world.



Successful Wire Antennas

Item No. 0363 – \$24.95

Packed with the latest wire antenna designs and developments, this book is a must-have for wire enthusiasts of all levels. Part of the popular family of *Practical Wire Antennas*. 240 pages.



Antennas for VHF and Above

Item No. 0501 – \$29.95

Discover what can be achieved on the VHF, UHF, and microwave bands. Includes all the details you need for understanding and experimenting with antennas. 144 pages.



HF Antennas for Everyone

Item No. 0145 – \$24.95

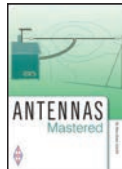
Divided into horizontal, vertical and loop antennas, this book features a combination of both the traditional and most recent designs. 366 pages.



Antennas Mastered

Item No. 0008 – \$24.95

A fascinating look at the practical side of antennas. Covering a breadth of material, readers will find practical solutions for all bands, antenna types, meters, software and more. 288 pages.

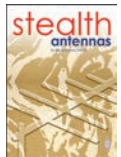


Stealth Antennas

2nd Edition

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Practical solutions for hams unable to put up large antenna towers and get on the air! Expanded and updated! 224 pages.

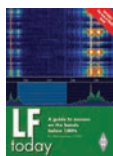


ARRL, the national association for Amateur Radio®

Building a Transceiver

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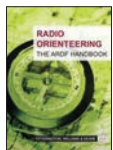
All the information you need to succeed on 136 & 500 kHz. Advice for amateurs just starting out, and reference information for those who already have some experience in LF. 192 pages.

Morse Code for Radio Amateurs

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Learn Morse code and get the maximum enjoyment from using it. Includes how to get started, learning techniques, increasing your speed and more. **CD-ROM included.** 48 pages.



Radio Orienteering—The ARDF Handbook

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Everything you need to become involved in this great amateur racing sport! Fun for both new and experienced amateurs, competitors use their skills to locate a number of hidden transmitters. 112 pages.

Computers in Amateur Radio

2nd Edition

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An insight into the Amateur Radio uses for the home computer. Includes material on the possibilities of Raspberry Pi and the wide variety of data modes now available. **CD-ROM included.** 256 pages.



VHF/UHF Handbook

2nd Edition

Item No. 1229 – \$29.95

Your guide to theory and practice in the VHF and UHF bands. Topics include getting started, antennas, constructing your own equipment, satellite operation, local nets, and specialized modes such as data and TV. 320 pages.

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Subscriptions are available for the UK's biggest and best radio magazine, published by the Radio Society of Great Britain (RSGB). Enjoy 15 monthly issues for the price of 12 (new members only).

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Amateur Radio Mobile Handbook

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For hams who regularly "go mobile" or are interested in doing so. Covers all the basics, installing equipment and antennas in a vehicle, maritime mobile, bicycles mobile, and more. 128 pages.

Test Equipment for the Radio Amateur

Item No. 1027 – \$24.95

Learn how to measure the performance of your station. You'll find it's easy to make useful test equipment yourself. 256 pages.



Microwave Know How

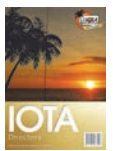
Item No. 0303 – \$21.95

A compilation of articles for building equipment for the Amateur Radio microwave bands. All projects use modern techniques and up to date components. 192 pages.

International QRP Collection

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- HF Antennas for All Locations. Item No. 4300\$34.95
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18 History

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A History of QST – Volume 1: Amateur Radio Technology 1915-2013



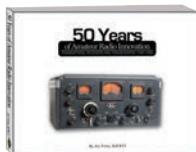
Edited by Ward Silver, NØAX
Item No. 0003 – \$34.95
ARRL Member Price! \$29.95

Discover the technical contributions made throughout Amateur Radio's first century. Begin in the era of spark and continue through advances in radio electronics, antenna design, and the dawn of satellites and digital communications.

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Joe Veras, K9OCO
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A guided tour of more than 400 legendary radios from 1930 – 1980, the "golden age" of American Radio Technology. This span saw the introduction of receivers, transmitters and transceivers that would become famous throughout the world.



50 Years CD-ROM

Item No. 3558 – \$19.95

Over 800 fascinating images, photographed by Joe Veras, K9OCO, not featured in the **50 Years of Amateur Radio Innovation** book (sold separately).



The Gil Cartoon Book

Item No. 0364 – \$15.95

The work of Philip "Gil" Gildersleeve, W1CJD, became a tradition. In tribute to this talented, creative and devoted artist and ham, the ARRL presents in this book a reprint of a portion of the best of his work.



World's Best Hobby

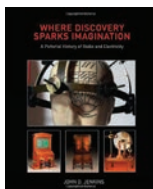
Item No. 9898 – \$22.95

A memoir by Dave Bell, W6AQ, of his life in the fascinating hobby of Amateur Radio. Written in a fun, entertaining style readers will be certain to enjoy.

Where Discover Spark Imagination

Item No. 1660 – \$34.95

Examine the early history of radio and electricity, with a collection of over 600 photographs. Anyone who appreciates the amazing workmanship and artistry of old technology will love this book.



A History of QST – Volume 2: Advertising 1915-2013



Joe Veras, K9OCO
Item No. 0048 – \$34.95
ARRL Member Price! \$29.95

Trace the history of receivers, transmitters, antennas, and other station gear through this collection of QST pages and advertising. It's a nostalgic journey, as told through the creative marketing, advertising and photography of yesteryear.

100 Years of QST – Special Reissue

Item No. 0365 – \$9.95

Celebrate 100 years of ARRL's membership journal, with a commemorative reissue of the first QST—the December 1915 issue.



The ARRL Film Collection DVD

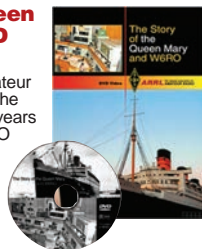
Dave Bell, W6AQ
Item No. 3725 – \$15.95

Take a journey back as ARRL presents a series of videos beginning in the late 1950s. From the original "Hams Wide Word" to "Amateur Radio Today", you will watch the evolution of Amateur Radio unfold before your eyes.

The Story of the Queen Mary and W6RO DVD

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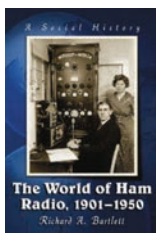
A story about W6RO, the Amateur Radio station located aboard the historic Queen Mary. With 35 years of continuous operation, W6RO has presented a positive image to millions of visitors. 28 minutes.



The World of Ham Radio: 1901 – 1950

Item No. 0257 – Only \$55

Explore the history of ham radio operators, their social history and their many contributions to the technological development of worldwide communications. This book highlights ham radio in major events of the half century, exploration and aviation "firsts".



ARRL, the national association for Amateur Radio®

National Parks on the Air Supplies

Ham Radio operators will be transmitting from national parks, monuments, and historic sites throughout 2016, to celebrate the National Parks Service Centennial.

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- Royal Blue Polo – \$22.95
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Ladies – Item No. 3108W (S-3XL)
- Red Polo – \$22.95
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Designed for ARRL Members, this sport polo features the ARRL diamond logo with the words “ARRL, Amateur Radio” on the front left chest. Available in royal blue and red.

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- Riverblue – Item No. 3066 – \$39.95

ARRL Sport Jacket

- Nautical Blue – Item No. 7351 – \$39.95

These jackets are embroidered with the words “ARRL, Amateur Radio” on the front left chest. Sizes S-3XL.

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Item No. 0014 – \$12.95

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ARES Apparel**ARES Polo Shirt**

Item No. 0006 – \$22.95

Designed for public service and ARES volunteers, this sport polo is embroidered with the Amateur Radio Emergency Service® (ARES) logo on front left chest. A perfect way to symbolize your commitment to Amateur Radio and the Emergency Service program. Size, S–4XL. Color, Navy.

**ARES T-Shirt**

Item No. 1331 – \$12.95

ARES® t-shirt, featuring the logo on the front left chest and “Radio Communications” on the back. Perfect for public service events. Size, S–4XL. Color, Navy.

**ARES Paracord Bracelet**

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2014 ARRL Periodicals on DVD

Fully-searchable collections of popular ARRL journals, *QST*, *QEX*, and *NCJ*. Every word and photo published throughout the year is included!

SEARCH the full text of every article by entering titles, call signs, names—almost any word.

SEE every word, photo (including color images), drawing and table in technical and general-interest features, columns and product reviews, plus all advertisements.

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Item No. 0325 – \$24.95

System Requirements: Microsoft Windows™. 1999-2014 editions support Windows and Macintosh systems, using the industry standard Adobe® Acrobat® Reader® software. The Acrobat Reader is a free download at www.adobe.com (included on CD through 2007).



Additional sets available on CD.

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2015 ARRL Periodicals on DVD Shipping January 2016 – www.arrl.org

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Directed toward the "Do It Yourself" movement, this video features innovative and fun ways hams use radio technology. 8 minutes 32 seconds.



The Story of the Enigma: History, Technology and Deciphering

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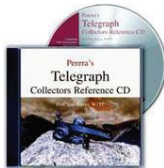
The complete story of the Enigma cipher machine, the primary device used by the German Military during WWII. It begins with the history of codes and progresses through the development of code machines, the Enigma, and other cipher machines.



Perera's Telegraph Collectors Reference CD-ROM

Item No. 1282 – \$15.00

A complete source of information for those interested in telegraph keys, from beginner to avid collector. It explains the history and technology of telegraph keys and gives their current values. Over 7,000 photographs, and an array of descriptions, prices, books, and more.



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Winter 2016 Edition

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Feature-packed! More than 1,600,000 licensed radio amateurs.



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An innovative, real-time satellite tracking program.

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Buckmaster's HamCall™ CD-ROM

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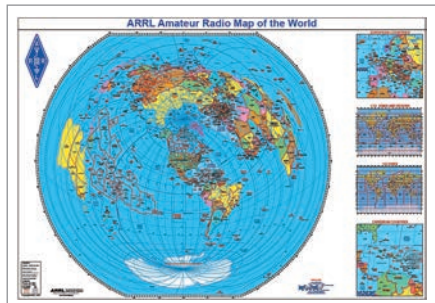
Look up hams by call, name, street address, city, state, postal code, county, and country. Over 2,000,000 worldwide call sign listings.



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22 Maps

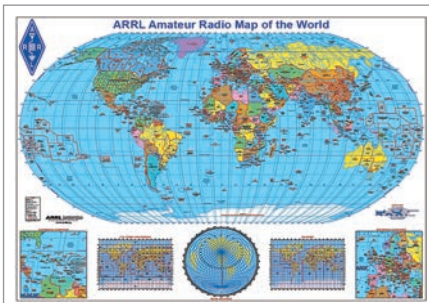
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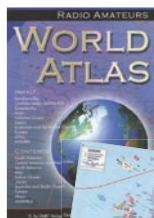
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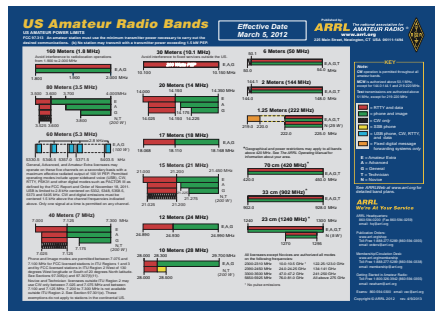
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(set of 25)

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These stickers are a great way to get the word out! Ideal for the bumper or rear window of your car, van or RV (vinyl with adhesive on the back).



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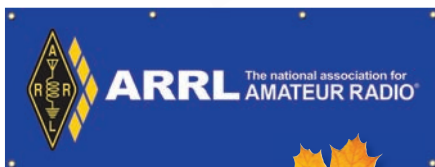
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1 3/8" diameter.

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Red push pen imprinted with "ARRL the national association for AMATEUR RADIO". The perfect give-away for all ham radio events!



ARRL Banner

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Full colored magnets imprinted with "Advancing the Art, Science and Enjoyment of Amateur Radio" and the ARRL five pillars. The perfect give-away for all ham radio events! Size 3.5" x 2".



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(set of 25)

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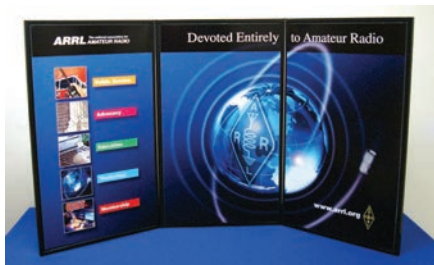
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