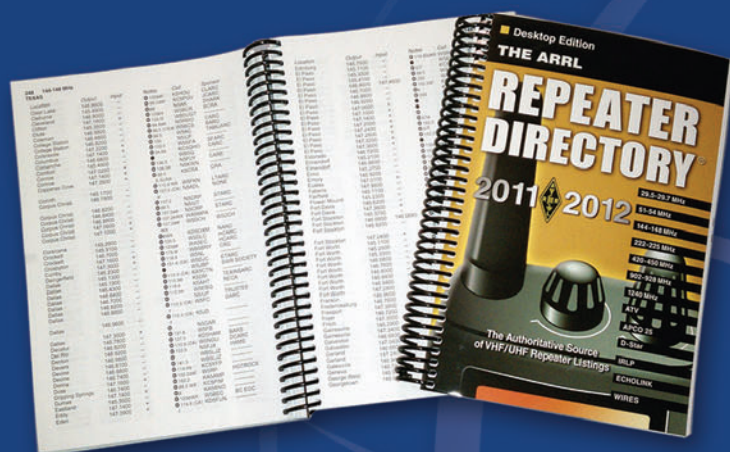


Devoted Entirely to

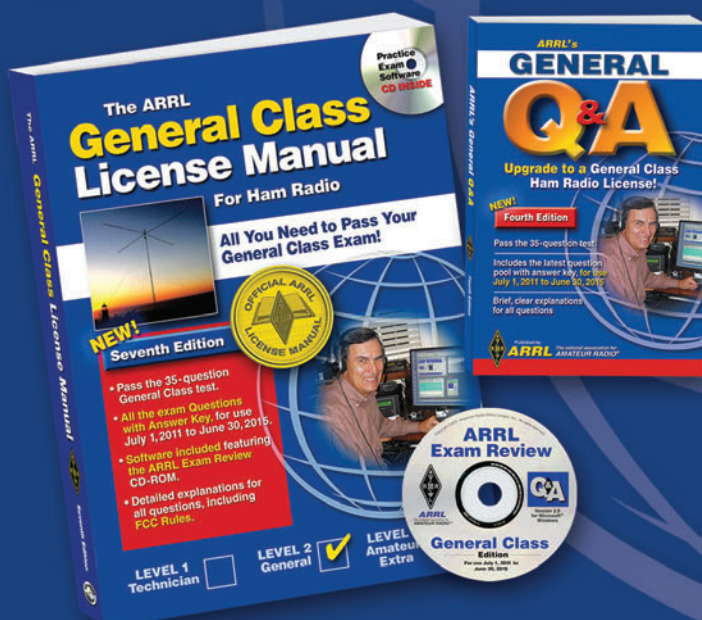
Amateur Radio



MANY NEW PRODUCTS!

The ARRL Repeater Directory
Improved Desktop Edition
New lay-flat spiral binding

See page 1 for details



All New training materials
for General Class licensing

See page 8 for details



ARRL The national association for
AMATEUR RADIO®
www.arrl.org/shop

Operating

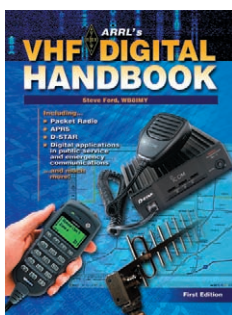
www.arrrl.org/shop ■ 1-888-277-5289

ARRL's VHF Digital Handbook

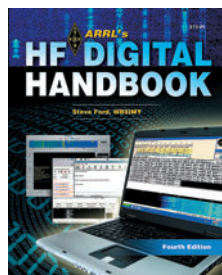
Steve Ford, WB8IMY

Order No. 1220 – \$19.95

Everything you need to get started in digital radio applications. You'll understand how to setup and operate your equipment and software, and make the best use of your VHF digital station. Includes Packet Radio, APRS, D-STAR, digital applications in public service and emergency communications, and much more!



*Dive into the
Digital Radio Universe!*



ARRL's HF Digital Handbook

4th Edition

Steve Ford, WB8IMY

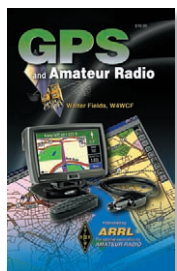
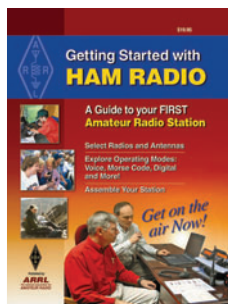
Order No. 1034 – \$19.95

Your guide to understanding the most active HF digital communication modes in use today. Expanded setup information, varieties of PSK, new content on Olivia, DominoEX, HF digital voice and image modes, Automatic Link Establishment and more!

Getting Started with Ham Radio

Order No. 9728 – \$19.95

Get on the air now! A guide to your first Amateur Radio station. Select radios and antennas, explore operating modes, and assemble your station.



GPS and Amateur Radio

Walter Fields, W4WCF

Order No. 9922 – \$18.95

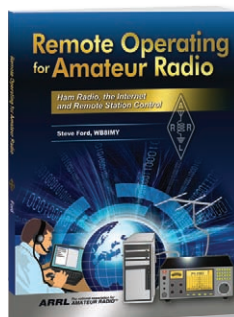
With this book, you'll explore GPS: its history, how it works, and navigating with a GPS receiver. You'll also learn how Amateur Radio operators have made use of GPS technology for direction finding and public service.

Low Profile Amateur Radio

2nd Edition

Order No. 9744 – \$19.95

Includes all the information you need to operate your station under many types of restrictive situations. Provides details for many real-life examples and techniques for a variety of low profile circumstances.



Remote Operating for Amateur Radio

Ham Radio, the Internet and Remote Station Control

Steve Ford, WB8IMY

Order No. 0922 – \$22.95

Learn the basics of how the Internet works, how home networks operate and how to interconnect Amateur Radio hardware and software for remote Internet control. You'll find station diagrams, software tips and much more.

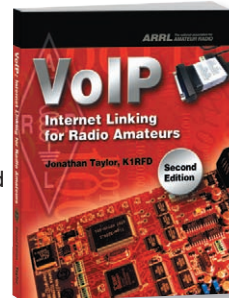
VoIP: Internet Linking for Radio Amateurs

2nd Edition

Jonathan Taylor, K1RFD

Order No. 1431 – \$21.95

Your complete guide to the most widely-used VOIP systems used by hams; with particular attention to **EchoLink** and the Internet Radio Linking Project, or **IRLP**.



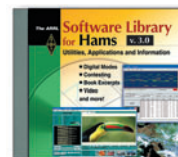
The ARRL Software Library for Hams

CD-ROM, version 3.0

Order No. 1424 – \$19.95

Quick access to utilities, applications and information: software for contesting, digital voice, HF digital (PSK31, MFSK16, MT63, and RTTY), meteor scatter and moonbounce, book excerpts and more! Also includes programs for APRS, Winlink 2000, packet radio and satellite tracking.

Requires Microsoft® Windows®.

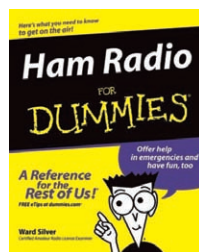
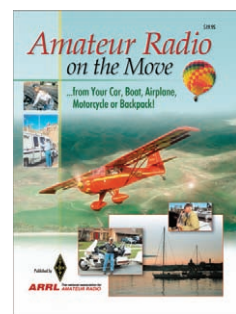


Amateur Radio on the Move

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

Order No. 9450 – \$19.95

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



Ham Radio for Dummies

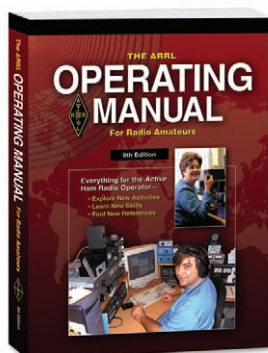
Ward Silver, N0AX

Order No. 9392 – \$21.99

Here's the scoop, including licensing requirements and how to set up a station.

And if you're already licensed, this book will help you start sounding (and feeling) like a pro!

*See page 13 for
more Dummies titles.*



The ARRL Operating Manual 9th Edition

Order No. 1093 – \$29.95

The ARRL Operating Manual is the most complete book about Amateur Radio operating. It was written to help guide you through the dozens of ways hams communicate with each other. It contains information that every ham needs to explore new activities, find new references and more.

Contents:

- Amateur Radio – All About Operating
- VHF/UHF – FM, Repeaters, Digital Voice and Data, SSB and CW
- Emergency Communications
- Traffic Handling – Getting the Message Through
- DXing – Contacting Those Faraway Places
- Contesting – Competitive Wireless
- HF Digital Communications
- Image Communications
- Amateur Satellites
- The FCC Rules and You – Operating Legally, Safely, and Appropriately
- Operating Awards
- References – Call Sign Prefix List, Antenna Bearing Maps, Abbreviations, and much more.



FCC Rules and Regulations for the Amateur Radio Service

2nd Edition

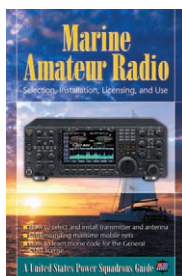
Order No. 1173 – \$5.95

Includes the complete Part 97 rules from Title 47 of the Code of Federal Regulations. Now including: *The FCC Rules and You*.

Marine Amateur Radio

Order No. 9723 – \$12.95

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

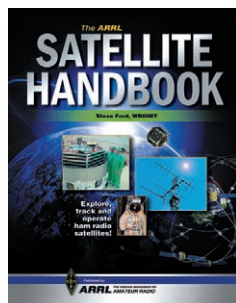


The ARRL Satellite Handbook

Steve Ford, WB8IMY

Order 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.



The ARRL Repeater Directory® 2011-2012 Edition

The best directory of frequencies for the thousands of repeaters around the country! Includes D-Star and APCO-25 repeaters, references for operating practices, emergency message handling and more.

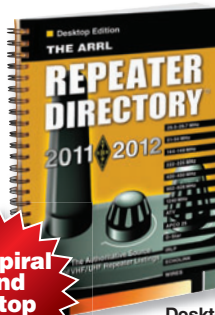
- Improved **Desktop Edition!** New lay-flat **spiral binding** allows for easy reference on the road.
- Handy indexing tabs on the cover.
- Easy-to-read listings.
- Repeater notes located right up front.

Desktop Edition

Order No. 1936 – \$15.95

Pocket-sized

Order No. 1769 – \$10.95



NEW!

Pocket-sized
(3.75 x 5.25 inches)

**New Spiral
Bound
Desktop
Edition!**

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

TravelPlus for Repeaters™

CD-ROM, version 15.0

Order No. 7921 – \$39.95

Locate repeaters along your travel route.

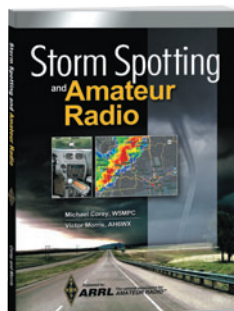
Feature-Packed CD-ROM:

- Map your travel route and tune in. Supports GPS.
- View and print maps and repeater lists.
- Access The ARRL Repeater DataBase, global Internet linked nodes, AM/FM radio, broadcast television, NOAA weather stations, USA and Canadian licenses, and ham radio points of interest.
- Export data for radio programming, handheld devices, and more.

NEW!



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



Storm Spotting and Amateur Radio

Order No. 0908 – \$22.95

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

2 Technical

www.arrl.org/shop ■ 1-888-277-5289

The ARRL Handbook 2011 Edition

Softcover Book and CD-ROM
Order No. 0953 – \$49.95

The ARRL Handbook is the most comprehensive guide to radio electronics and experimentation. The book is part reference and part applied theory, filled with practical treatments of basic electronic fundamentals, RF design, digital and software radio technology, and antenna construction.

Always Revised! This eighty-eighth has been significantly expanded, featuring brand-new projects, new topics and expanded content. Fully searchable CD-ROM included (version 15.0).



*Expanded
and
Revised Edition!*

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
- 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
- Space Communications
- Digital Communications
- Image Communications

ARRL's Hands-On Radio Experiments

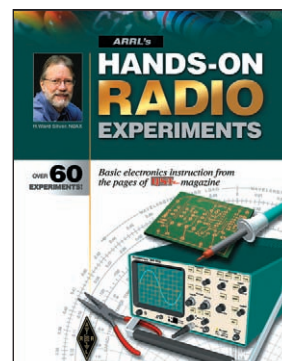
Ward Silver, NØAX

Order No. 1255 – \$19.95

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.

- Radio and Electronic Fundamentals
- Semiconductor Basics
- Building Block Circuits
- Power Supplies
- Filters
- Oscillators and Buffers
- Transmission Lines & Impedance Matching
- Workshop & Design Techniques

Includes a complete parts list!

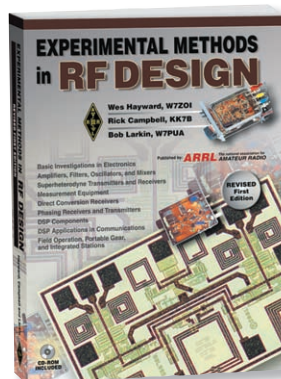


Hands-On Radio Parts Kit

Order No. 1255K – \$79.95

Use the parts kit to build the experiments yourself! Kit and book sold separately.

Experimental Methods in RF Design



Revised 1st Edition

Order No. 9239 – \$49.95

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. Laced with unpublished projects and illustrated with CW and SSB gear.

CD-ROM included with design software, listings for DSP firmware, and supplementary articles.

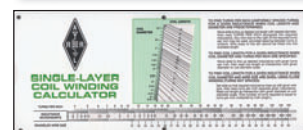
Contents:

- Basic Investigations in Electronics
- Amplifiers, Filters, Oscillators, and Mixers
- Super-heterodyne Transmitters and Receivers
- Measurement Equipment
- Direct Conversion Receivers
- Phasing Receivers and Transmitters
- DSP Components
- DSP Applications in Communications
- Field Operation, Portable Gear and Integrated Stations

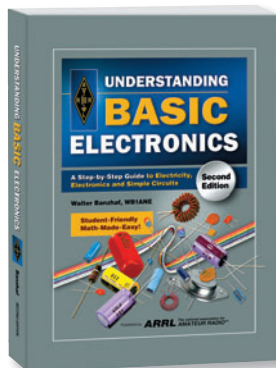
L/C/F and Single-Layer Coil Winding Calculator

Order No. 9123 – \$12.95

Use this handy slide rule when you're tinkering with filters, oscillators, impedance matching circuits or antenna coils and traps. Quick and easy circuit calculations.



ARRL "Basic" Book Series



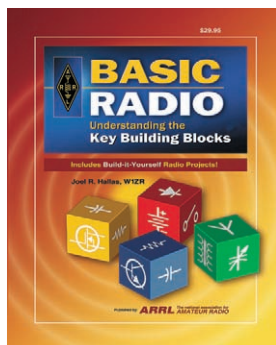
Understanding Basic Electronics

2nd Edition

Order No. 0823 – \$32.95

ARRL Member Price! \$29.95

Your gateway into the exciting world of electricity and electronics! This book is 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!



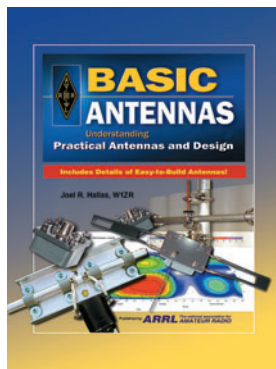
Basic Radio

Understanding the Key Building Blocks

Joel Hallas, W1ZR

Order No. 9558 – \$29.95

This is an introduction to radio for everyone. Reveals the key building blocks of radio: **receivers, transmitters, antennas, and propagation.** Includes simple, build-it-yourself projects to turn theory into practice.



Basic Antennas

Understanding Practical Antennas and Design

Joel Hallas, W1ZR

Order No. 9994 – \$29.95

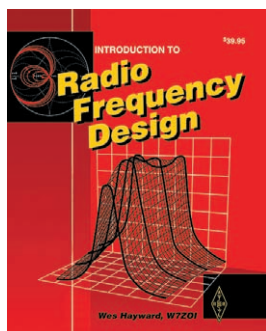
A comprehensive introduction to antennas. Includes basic concepts, practical designs, and details of easy-to-build antennas. You'll learn how to make antennas that *really* work!

Introduction to Radio Frequency Design

Wes Hayward, W7ZOI

Order No. 4920 – \$39.95

The fundamental methods of radio frequency design using mathematics as needed to develop intuition for RF circuits and systems. Simple circuit models are used to prepare you to actually design HF, VHF and UHF equipment.



ARRL's PIC Programming for Beginners

Revised First Edition

Order No. 0892 – \$44.95

ARRL Member Price! \$39.95

Your guide to understanding PIC design and development. Written in a building block approach, this book provides readers a strong foundation on the subject. As you explore the potential of these powerful devices, you'll find that working with PICs is simple, educational and most importantly fun.



ARRL's PIC Programming Kit

Order No. 0030 – \$149.95

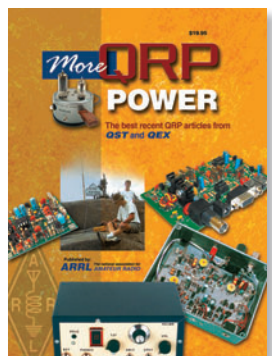
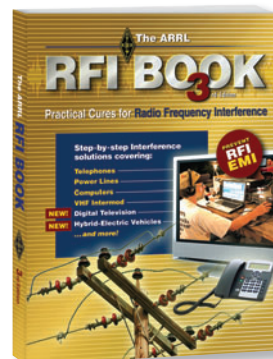
Build your own PIC kit!
Kit and book sold separately.

The ARRL RFI Book

3rd Edition

Order No. 0915 – \$29.95

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



More QRP Power

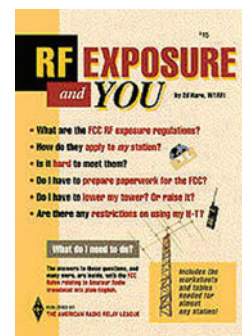
Order No. 9655 – \$19.95

Here are *more* projects and articles for **low power radio operating**, from the pages of *QST* and *QEX* magazines: **construction practices, transceivers, transmitters, receivers, accessories, and antennas.**

RF Exposure and You

Order 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.



4 Technical

www.arrl.org/shop ■ 1-888-277-5289

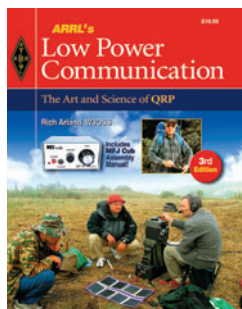
ARRL's Low Power Communication

3rd Edition

Rich Arland, W3OSS

Order No. 1042 – \$19.95

Welcome to the world of QRP! Explore the excitement of low power radio operating with equipment and station accessories, antennas, operating strategies, emergency communication, surplus military equipment and more. Includes the complete assembly manual for the MFJ Cub Transceiver Kit. Kit not included.



Get the book with the kit!

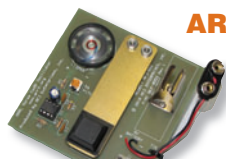
Order No. 1042K – \$99.95

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

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

Order No. 0018 – \$89.95

20-meter CW Cub Transceiver Kit. Book not included.



NEW!

ARRL Morse Code Oscillator Kit

ARRL Order No. 0022 – \$24.95

A great "beginners" electronics kit! Ideal for ARRL members, Amateur Radio newcomers, clubs, instructors and teachers seeking a classroom kit-building experience.

Morse Code Key

ARRL Order No. 0242 – \$15.95

Explore the fun of Morse code with this straight key. For use with ARRL's Morse Code Oscillator Kit (sold separately).



NEW!

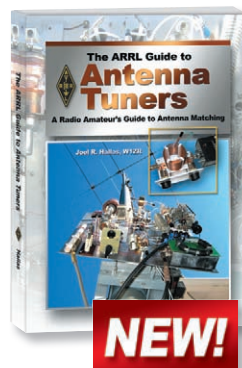


Digital Signal Processing Technology

Doug Smith, KF6DX

Order No. 8195 – ~~\$44.95~~ **\$34.95**

The book begins with basic concepts, details digital sampling including fundamental and harmonic sampling, aliasing and mechanisms at play in real data converters and other current topics.



NEW!

The ARRL Guide to Antenna Tuners

A Radio Amateur's Guide to Antenna Matching

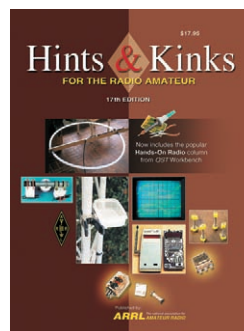
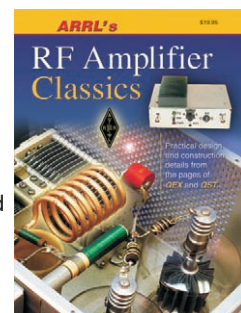
Order No. 0984 – \$22.95

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.

ARRL's RF Amplifier Classics

Order No. 9310 – \$19.95

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!



Hints and Kinks for the Radio Amateur

17th Edition

Order No. 9361 – \$17.95

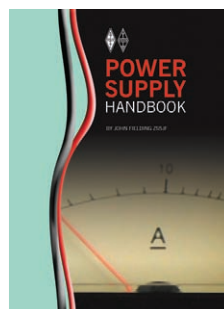
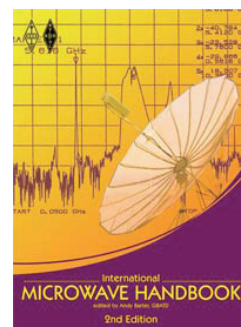
The best of Amateur Radio tips and techniques from the pages of *QST* —antennas, weekend projects, shack accessories and operating. Now including articles from the columns **The Doctor is IN** and **Hands-On Radio**.

International Microwave Handbook

2nd Edition

Order No. 0330 – \$29.95

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

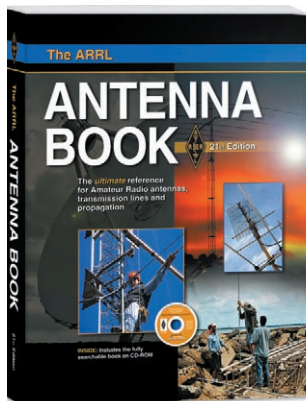


Power Supply Handbook

John Fielding, ZS5JF

Order No. 9977 – \$29.95

Understand and make power supplies of all types. Explains how power supplies work, selecting each component, building and modifying, measuring the finished supply, and more.



The ARRL Antenna Book — 21st Edition

The ultimate reference for Amateur Radio antennas, transmission lines and propagation

Order No. 9876 – \$44.95

The ARRL Antenna Book is THE SOURCE for current antenna theory and a wealth of practical, how-to construction projects. Extensively revised, and featuring antenna designs enhanced by the latest advances in computer modeling. Design, build and install any imaginable type of antenna—from the most simple wire varieties, to specialized or highly optimized arrays.

Fully searchable CD-ROM included!

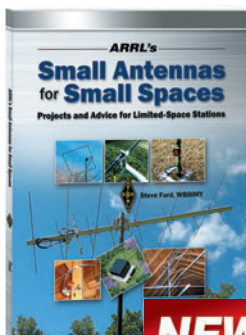
Bundled with this edition is the fully-searchable book on CD-ROM and additional software utilities*. The CD-ROM supports Windows™ and Macintosh systems. At your command is the entire book—every word and every page—PLUS pages of band-by-band propagation tables for locations around the world! Uses the widely popular Adobe® Acrobat® Reader® software (included) to **view, navigate, search and print from all chapters.**

The CD-ROM contains additional utility programs, including:

- YW – Yagi for Windows
- TLW – Transmission Line for Windows
- HFTA – HF Terrain Assessment for Windows
- Range-Bearing – compute range/bearing or latitude/longitude
- Arrayfeed1 – designing phased-array feed systems
- EZNEC-ARRL – antenna modeling for Windows

***CD-ROM System Requirements:** Microsoft Windows 98 or later for PCs. Publication PDF files can be viewed on any Apple Macintosh computer that has Preview or Adobe Reader ver. 7 or 8 loaded. Additional software utilities are included, for Windows and DOS only.

All you need to design your own complete antenna system!



NEW!

ARRL's Small Antennas for Small Spaces

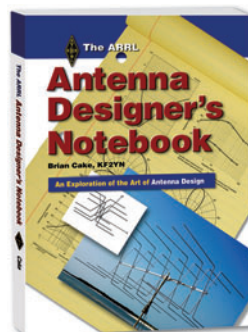
Projects and Advice for Limited-Space Stations

Steve Ford, WB8IMY

Order 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, this book guides you to finding the right antenna design to fit your space available. Get on the air regardless of where you live!



The ARRL Antenna Designer's Notebook

Brian Cake, KF2YN

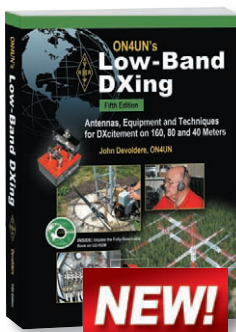
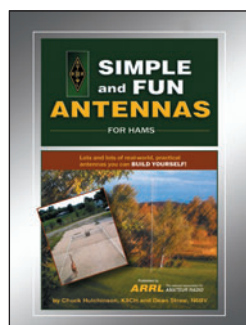
Order No. 1479 – \$34.95

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 – such as the FZ element and the C-pole – and practical antennas made from them. **CD-ROM included!**

Simple and Fun Antennas for Hams

Order 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 work!**



NEW!

ON4UN's Low Band DXing

Antennas, Equipment and Techniques for DXcitement on 160, 80 and 40 Meters

5th Edition

John Devoldere, ON4UN

Order No. 8560 – \$44.95

Includes antenna designs, operating guidelines, and an insider's scoop on low-band DXing. There's something for every active low-band operator, contester, and DX chaser! This edition features new insights and new

design techniques for receiving antennas, dipole antennas and phased arrays. **CD-ROM included!** Bundled with the fully searchable and complete book on CD-ROM.

6 Antennas

www.arrrl.org/shop ■ 1-888-277-5289

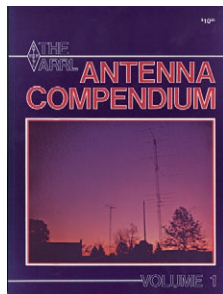
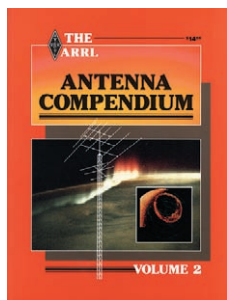
The ARRL Antenna Compendium Series

Full of practical antenna designs and other antenna-related topics.

Volume 1

Order No. 0194 – \$20

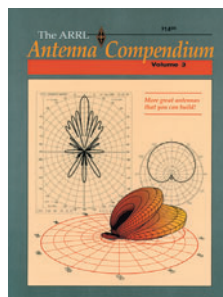
The premiere volume includes articles on a multiband portable, quads and loops, baluns, the Smith Chart, and more.



Volume 2

Order No. 2545 – \$14

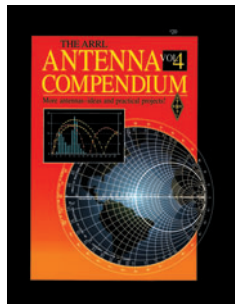
Covers a wide range of antenna types and related topics, including innovative verticals, an attic tri-bander, antenna modeling and propagation.



Volume 3

Order No. 4017 – \$14

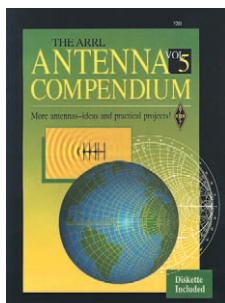
Quench your thirst for new antenna designs, from Allen's Log Periodic Loop Array to Zavrel's Triband Triangle. Discover a 12-meter quad, a discone, modeling with MININEC and VHF/UHF ray tracing.



Volume 4

Order No. 4912 – \$20

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



Volume 5

Order No. 5625 – \$20

—Includes software

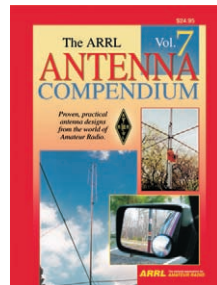
Enjoy excellent coverage of baluns, an HF beam from PVC, low-band Yagis, quads and verticals, curtain arrays, and more!

Volume 6

Order No. 7431 – \$22.95

—Includes software

All new articles covering low-band antennas and operating, 10-meter designs, multiband antennas, propagation and terrain assessment. CD-ROM included with propagation prediction software!



Volume 7

Order No. 8608 – \$24.95

Proven, practical antenna designs from the world of Amateur Radio. This volume includes even more articles on low-band antennas and operating, and great designs for operating on the road—from cars, vans or motor homes.

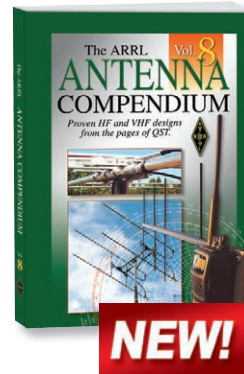
Volume 8

Order No. 0991 – \$24.95

Inside are 60 articles from **QST** magazine featuring practical ideas, tips and some of the best antenna projects. You'll find designs such as the Handy Yagi Antenna, Compact 40 Meter HF Loop, 20 and 40 Meter Verticals on "Autopilot" and much more.

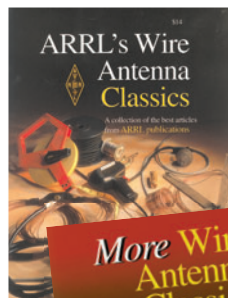
Volume 8 covers a complete list of topics including:

- HF Portable
- HF Directional
- HF Omnidirectional
- VHF/UHF Portable
- VHF/UHF Omnidirectional
- VHF/UHF Directional



The most innovative antenna projects yet!

The Classics

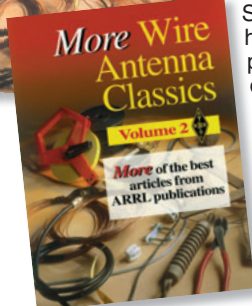


ARRL's Wire Antenna Classics and More Wire Antenna Classics

Volume 1
Order No. 7075 – \$14

Volume 2
Order No. 7709 – \$17.95

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!

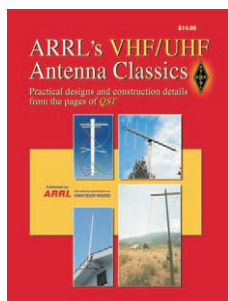


ARRL's VHF/UHF Antenna Classics

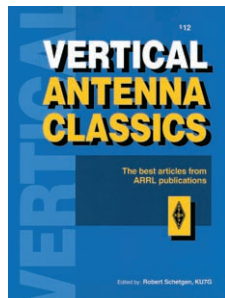
Build portable, mobile and fixed antenna designs

Order No. 9078 – \$14.95

Ground planes, J-poles, mobile antennas, Yagis and more. Build a better antenna for your hand-held radio. Construct a 2-meter Yagi that will rival similar commercial antennas. Build a dual-band vertical for 146 and 445-MHz. The results will be rewarding! Includes projects gathered from the 1980 to 2003 issues of *QST*.



Practical designs and construction details from the pages of QST.



Vertical Antenna Classics

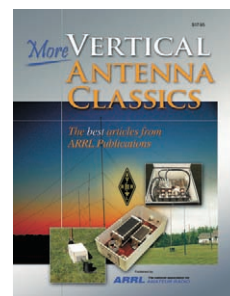
Order No. 5218 – \$12

Vertical antennas are everywhere—on cell phones, broadcast towers, portable radios and vehicles. And for good reason! Here are the best articles from ARRL publications in one book. Vertical antenna theory and modeling, VHF and UHF, HF, directional arrays, radials, product suppliers and more.

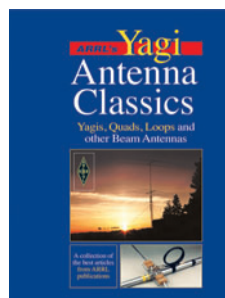
More Vertical Antenna Classics

Order No. 9795 – \$17.95

This second edition includes updated material on the art and science of the vertical antenna. Designs for a variety of operating preferences and bands, ground systems, portable antennas, phased vertical arrays, and more.



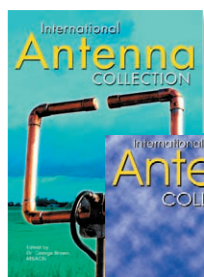
ARRL's Yagi Antenna Classics



Yagis, Quads, Loops and other Beam Antennas

Order No. 8187 – \$17.95

Includes some of the very best articles written about beam antennas, from ARRL publications. The antennas covered in this book will provide the reader with a historical perspective, new and ambitious ideas, and computer-optimized designs for all-around best performance.

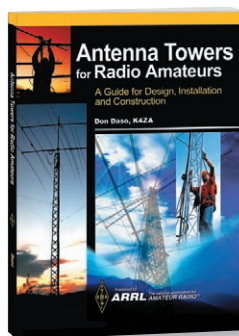
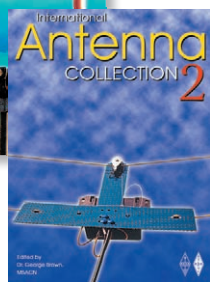


International Antenna Collection

Volume 1
Order No. 9156 – \$19.95

Volume 2
Order No. 9465 – \$21.95

Collections of antenna designs from around the world—from 136 kHz to 1.3 GHz, receiving and transmitting, fixed and mobile designs.



Antenna Towers for Radio Amateurs

A Guide to Design, Installation and Construction

Order No. 0946 – \$34.95

With years of experience as a professional tower climber, Don Daso, K4ZA, leads you through designing and building your own antenna tower. You'll learn the skills, tools, climbing techniques, and safety measures necessary to improve your antenna system.

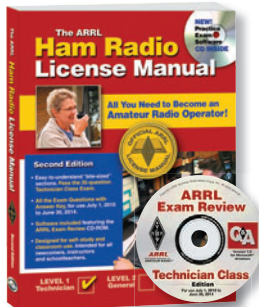
Make your tower dream a reality!

8 Licensing

www.arrl.org/shop ■ 1-888-277-5289

Level 1 – Technician

The ARRL Ham Radio License Manual



All you need to become an Amateur Radio Operator!

NEW!

Revised 2nd Edition

Book with CD-ROM

Order No. 0977 – \$29.95

The most popular introduction into the world of Amateur Radio! Every page presents information you will need to pass the exam and become an effective operator.

- Easy-to-understand “bite-sized” sections. Use this book, and pass the 35-question license test.
- Includes the latest question pool with answer key, for use through June 30, 2014.
- Software included featuring the ARRL Exam Review CD-ROM.
- Designed for self-study and for class-room use. Intended for all newcomers, instructors and schoolteachers.

ARRL's Tech Q & A

5th Edition

Order No. 0847 – \$17.95

Earn your FIRST Amateur Radio license NOW! It's quick and easy with this study guide and the convenient question and answer format. Using ARRL's Tech Q & A is the best way to review for the exam with confidence.

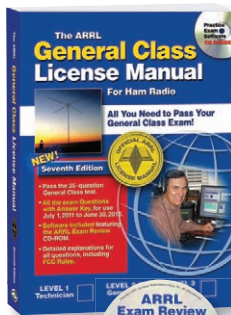


- Pass the 35-question test
- Includes the latest question pool with answer key, for use through June 30, 2014.
- Brief, clear explanations for all questions

Level 2 – General

Upgrade from Technician

Upgrade and enjoy the thrill of high-power communications on all HF bands!



The ARRL General Class License Manual

All You Need to Pass your General Class Exam!

7th Edition

Book with CD-ROM

Order No. 8119 – \$29.95

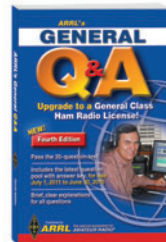
- Pass the 35-question General Class exam.
- All the Exam Questions with Answer Key, for use July 1, 2011 to June 30, 2015.
- Software included featuring the ARRL Exam Review CD-ROM.
- Detailed explanations for all questions, including FCC rules.

ARRL's General Q&A

4th Edition

Order No. 8089 – \$17.95

- Pass the 35-question General test.
- Includes the latest question pool with answer key, for use July 1, 2011 to June 30, 2015.
- Brief, clear explanations for all questions.

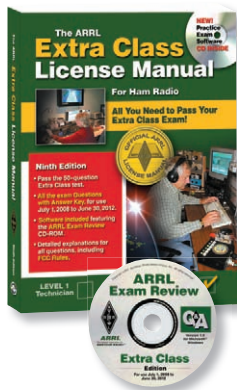


“Any time is a good time to upgrade your knowledge and (if you're not already Amateur Extra) your class of license, but for Technicians 2011 is an especially good year to go for at least the General.”

David Sumner, K1ZZ
ARRL Chief Executive Officer

Level 3 – Amateur Extra

Upgrade from General Achieve the highest level in Amateur Radio!



The ARRL Extra Class License Manual

9th Edition

Book with CD-ROM

Order No. 8874 – \$29.95

- Pass the 50-question Extra Class exam.
- All the Exam Questions with Answer Key, for use through June 30, 2012.
- Software included featuring the ARRL Exam Review CD-ROM.
- Detailed explanations for all questions, including FCC rules.

NEW!



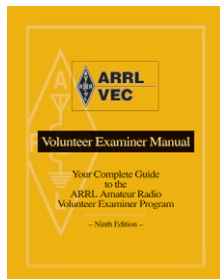
ARRL's Extra Q&A

2nd Edition

Order No. 1379 – \$17.95

- Pass the 35-question Extra test.
- Includes the latest question pool with answer key, for use through June 30, 2012.
- Brief, clear explanations for all questions.

ARRL Licensing References



ARRL/VEC Volunteer Examiner Manual

9th Edition

Order No. 1328 – \$10

Your Complete Guide to the ARRL Amateur Radio Volunteer Examiner Program. Whether you have ever thought about becoming a Volunteer Examiner or you are a seasoned VE, this book is packed with everything ARRL VEs need to know.

Includes:

- Becoming a Volunteer Examiner
- The Volunteer Examiner Team
- Preparing for the Test Session
- Form 605
- Conducting the Test Session
- Session Report and Returning Documents
- FCC Part 97 Rules
- ...and more

Flash and Pass Card Sets

Flashcards are absolutely the fastest most efficient way to learn! You get the actual test questions that will appear on the exam. Simply read the question, decide on an answer, and flip the card over for the correct answer.

The flashcards allow you to break up the learning task into smaller, more manageable segments. Save time by focusing only on the questions you don't know.

When you've mastered all of the cards, you're ready to take the test!

- **Technician Class Flash Card Set**
Order No. 1345 – \$24.95
- **General Class Flash Card Set**
Order No. 1357 – \$39.95
- **Extra Class Flash Card Set**
Order No. 1366 – \$39.95



VE Challenge Coin

Order No. 0711 – \$9.95

This commemorative ARRL VEC challenge coin is in the second in the series. The ARRL diamond and words "Amateur Radio Service" are depicted on the back. 1-1/2" round.



VE Patch Round

Order No. 0013 – \$5

VE Patch Rectangular

Order No. 0121 – \$2



The ARRL Instructor's Manual for Technician License Courses

5th Edition

Order No. 8737 – \$19.95

For use with The ARRL Ham Radio License Manual – Second Edition

Includes...

- Modular lesson plans for a Technician Class Course
- Four practice exams
- Special Supplement: The Teacher's Guide to Amateur Radio Instruction

CD-ROM Included!

- Powerpoint slides organized by lesson
- Illustrations and photos from the license manual
- ... Plus, more resources for instructors and schoolteachers

To become an Instructor visit:

www.arrl.org/license-instructor-registration



ARRL PUBLICATIONS

SHOP DIRECT or call for a dealer near you.

ONLINE WWW.ARRL.ORG/SHOP ORDER TOLL-FREE 888/277-5289 (US)

License Study Materials

Technician Class

Exam: 35-question Technician test (Element 2)
NEW! The ARRL Ham Radio License Manual—Revised 2nd Edition. Ham radio's most popular license manual! Organized in easy-to-understand "bite-sized" sections, this is all you need to become an Amateur Radio operator. Now including practice exam software on CD-ROM.

Order No. 0977	\$29.95
ARRL's Tech Q & A—5th Edition. Order No. 0847	\$17.95
NEW! The ARRL Instructor's Manual for Technician License Courses. Order No. 8737	\$19.95
Ham Radio for Dummies. Order No. 9392	\$21.99
Technician Class Flash Card Set. Order No. 1345	\$24.95

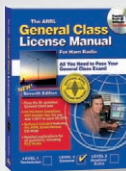


General Class

(upgrade from Technician)

Exam: 35-question General test (Element 3)
NEW! The ARRL General Class License Manual—7th Edition. All the exam questions with answer key, for use July 1, 2011 to June 30, 2015. Now including practice exam software.

Order No. 8119	\$29.95
NEW! ARRL's General Q & A—4th Edition. Order No. 8089	\$17.95
General Class Flash Card Set. Order No. 1357	\$39.95



Extra Class

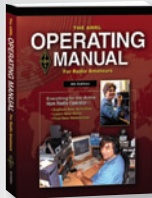
(upgrade from General)

Exam: 50-question Extra test (Element 4)
NEW! The ARRL Extra Class License Manual—Revised 9th Edition. Achieve the highest level of Amateur Radio licensing! Now including practice exam software.

Order No. 8874	\$29.95
ARRL's Extra Q & A—2nd Edition. Order No. 1379	\$17.95
Extra Class Flash Card Set. Order No. 1366	\$39.95



Operating and Reference



The ARRL Operating Manual—9th Edition.
 The MOST COMPLETE book about Amateur Radio Operating. It contains everything you need to explore new activities, learn new skills, find new references, and more.
 Order No. 1093 \$29.95

NEW! ARRL Repeater Directory®—2011/2012 Edition.
 Pocket-sized (3.75" x 5.25"), Order No. 1769 \$10.95
 Desktop Edition (6" x 9"), Order No. 1936 \$15.95

NEW! TravelPlus for Repeaters™—2011-2012 Edition.
 CD-ROM, version 15.0. Order No. 7921 \$39.95

NEW! ARRL's Hamspeak—A Dictionary for Radio Amateurs.
 Order No. 8423 **ARRL Member Price \$15.95** \$17.95

NEW! The ARRL DXCC List. March 2011 Edition. Order No. 7617 \$5.95

The ARRL DXCC Handbook. Order No. 9884 \$19.95

DXing on the Edge. Order No. 6354 \$19.95

RF Exposure and You. Order No. 6621 \$22.95

50 Years of Amateur Radio Innovation. Order No. 0228 \$39.95

50 Years of Amateur Radio CD-ROM. Order No. 3558 \$19.95

Hints & Kinks. 17th Edition. Order No. 9361 \$17.95

Low Profile Amateur Radio. 2nd Edition. Order No. 9744 \$19.95

The ARRL Field Day Handbook. Order No. 0885 \$19.95

FCC Rules and Regulations. 2nd Edition. Order No. 1173 \$5.95

Getting Started with Ham Radio. Order No. 9728 \$19.95

The ARRL Software Library for Hams. CD-ROM, version 3.0
 Order No. 1424 \$19.95

Amateur Radio on the Move. Order No. 9450 \$19.95

Storm Spotting and Amateur Radio. Order No. 0908 \$22.95

ARRL's Vintage Radio. Order No. 9183 \$19.95

Your Introduction to Morse Code. Order No. 8314 \$12.95

Two-Way Radios & Scanners for Dummies. Order No. 9696 \$21.99

2011 Super Frequency List on CD-ROM. Order No. 0137 \$44.95

2011 Shortwave Frequency Guide. Order No. 0113 \$59.95

Remote Operating for Amateur Radio. Order No. 0992 \$22.95

Pocket Ref (by Glover). Order No. 1148 \$12.95

Marine Amateur Radio. Order No. 9723 \$12.95

Shortwave DX Handbook. Order No. 9953 \$34.95

A Year of DX. Order No. 0040 \$20

The Complete DX'er. Order No. 9073 \$19.95

ARRL Map of North America. 27 x 39 inches. Includes grids!
 Order No. 8977 \$15

ARRL Map of the World (Azimuthal). 27 x 39 inches.
 Order No. 7717 \$15

ARRL Map of the World (Robinson). 26 x 34.5 inches.
 Order No. 8804 \$15

ARRL Worked All States (WAS) Map. 11 x 17 inches.
 Order No. 8804 \$15

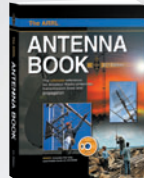
ARRL Frequency Chart on reverse side. Order No. 1126 \$3

The Radio Amateur's World Atlas. Order No. 5226 \$12.95

MAPS

NEW! RSGB Amateur Radio Operating Manual. Order No. 2300	\$29.95
RSGB IOTA Directory. Order No. 0112	\$19.95
RSGB 6 Metre Handbook. Order No. 0340	\$24.95
RSGB LF Today. 2nd Edition. Order No. 0220	\$24.95
RSGB Radio Orienteering. Order No. 0131	\$19.95
NEW! RSGB Prefix Guide. 9th Edition. Order No. 0180	\$19.95
RSGB Morse Code for Radio Amateurs. Order No. 0221	\$15.95

Antennas and Transmission Lines



The ARRL Antenna Book—21st Edition.

The ultimate reference for Amateur Radio antennas, transmission lines and propagation. **CD-ROM included.**

Softcover. Order No. 9876 \$44.95

Basic Antennas. Order No. 9994 \$29.95

International Antenna Collection.

Volume 1. Order No. 9156 \$19.95

Volume 2. Order No. 9465 \$21.95

The ARRL Antenna Designer's Notebook.

Order No. 1479 \$34.95

NEW! ON4UN's Low-Band DXing. 5th Edition. Order No. 8560 \$44.95

NEW! ARRL's Small Antennas for Small Spaces.

Order No. 8393 **ARRL Member Price \$22.95** \$25.95

Antenna Towers for Radio Amateurs. Order No. 0946 \$34.95

The ARRL Guide to Antenna Tuners. Order No. 0984 \$22.95

ARRL's Yagi Antenna classics. Order No. 8187 \$17.95

Simple and Fun Antennas for Hams. Order No. 8624 \$22.95

ARRL's Wire Antenna Classics. Order No. 7075 \$14

More Wire Antenna Classics—Volume 2. Order No. 7709 \$17.95

More Vertical Antenna Classics. Order No. 7975 \$17.95

Vertical Antenna Classics. Order No. 5218 \$12

ARRL's VHF/UHF Antenna Classics. Order No. 9078 \$14.95

ARRL Antenna Compendium. Vol. 1. Order No. 0194 \$20

ARRL Antenna Compendium. Vol. 2. Order No. 2545 \$14

ARRL Antenna Compendium. Vol. 3. Order No. 4017 \$14

ARRL Antenna Compendium. Vol. 4. Order No. 4912 \$20

ARRL Antenna Compendium. Vol. 5. Order No. 5625 \$20

ARRL Antenna Compendium. Vol. 6. Order No. 7431 \$22.95

ARRL Antenna Compendium. Vol. 7. Order No. 8608 \$24.95

ARRL Antenna Compendium. Vol. 8. Order No. 0991 \$24.95

RSGB Practical Wire Antennas. Order No. R878 \$17

RSGB Practical Wire Antennas 2. Order No. 9563 \$24.95

RSGB HF Antennas for Everyone. Order No. 0145 \$24.95

RSGB HF Antennas for All Locations. Order No. 4300 \$34.95

RSGB Antennas for VHF and Above. Order No. 0501 \$29.95

RSGB Building Successful HF Antennas.

Order No. 0800 \$34.95

RSGB The Antenna Experimenter's Guide.

Order No. 6087 \$34.95

RSGB HF Antenna Collection. Order No. 3770 \$34.95

NEW! RSGB Stealth Antennas. Order No. 3208 \$24.95

RSGB Backyard Antennas. Order No. RBYA \$34.95

RSGB Radio Propagation - Principles and Practice.

Order No. 9328 \$29.95

Antennas: Fundamentals, Design, Measurement. Standard Edition.

Order No. 0320 \$99

Antennas: Fundamentals, Design Measurement. Deluxe Edition.

Order No. 0175 \$149

Tower Climbing Safety & Rescue. Order No. 1108 \$29.95

Electronic Applications of the Smith Chart. Order No. 7261 \$75

Radio-Electronic Transmission Fundamentals.

Order No. RETF \$89

Transmission Line Transformers. Order No. TLT4 \$59

Transmission Line Transformers. CD-ROM. Order No. 9088 \$129

CD-ROM Collections

2010 Periodicals on CD-ROM. Order No. 2001	\$24.95
2009 Periodicals on CD-ROM. Order No. 1486	\$24.95
2008 Periodicals on CD-ROM. Order No. 9406	\$24.95
2007 Periodicals on CD-ROM. Order No. 1204	\$19.95
2006 Periodicals on CD-ROM. Order No. 9841	\$19.95
2005 Periodicals on CD-ROM. Order No. 9574	\$19.95
2004 Periodicals on CD-ROM. Order No. 9396	\$19.95
2003 Periodicals on CD-ROM. Order No. 9124	\$19.95
2002 Periodicals on CD-ROM. Order No. 8802	\$19.95
2001 Periodicals on CD-ROM. Order No. 8632	\$19.95
2000 Periodicals on CD-ROM. Order No. 8209	\$19.95
1999 Periodicals on CD-ROM. Order No. 7881	\$19.95
1997 Periodicals on CD-ROM. Order No. 6729	\$19.95
1996 Periodicals on CD-ROM. Order No. 6109	\$19.95
1995 Periodicals on CD-ROM. Order No. 5579	\$19.95
NEW! Callbook CD-ROM. Summer 2011 Edition. Order No. 0210	\$49.95
HamCall™ CD-ROM. Order No. 8991	\$49.95

QST on CD-ROM!



ARRL PUBLICATIONS

SHOP DIRECT or call for a dealer near you.

ONLINE WWW.ARRL.ORG/SHOP ORDER TOLL-FREE 888/277-5289 (US)

Practical Circuits and Design



The ARRL Handbook—2011 Edition.

The most comprehensive guide to radio electronics and experimentation. Part reference and part applied theory, it is filled with electronic fundamentals, RF design, digital and software radio technology, and antenna construction. **Always Revised!** This 88th edition includes new topics, project material, and expanded content.

Fully searchable CD-ROM Included! (version 15.0) **Softcover.** Book and CD-ROM.

Order No. 0953.....\$49.95

Understanding Basic Electronics. 2nd Edition.

Order No. 0823.....**ARRL Member Price \$29.95**.....~~\$32.95~~

Basic Radio—Understanding the Key Building Blocks.

Order No. 9558.....\$29.95

Digital Signal Processing Technology.

Order No. 8195.....**\$34.95**.....~~\$44.95~~

ARRL's Hands-On Radio Experiments. Order No. 1255.....\$19.95

Hands-On Radio Parts Kit. Order No. 1255K.....\$79.95

The ARRL RFI Book. 3rd Edition. Order No. 0915.....\$29.95

Experimental Methods in RF Design. Revised 1st Edition.

Order No. 9239.....\$49.95

ARRL's PIC Programming for Beginners. Revised 1st Edition.

Order No. 0892.....**ARRL Member Price \$39.95**.....~~\$44.95~~

NEW! ARRL PIC Programming Kit. Order No. 0030.....\$149.95

NEW! ARRL Morse Code Oscillator Kit. Order No. 0022.....\$22.95

NEW! Morse Code Key. Order No. 0242.....\$15.95

Keyer Touch Paddle Kit. Order No. 0670.....\$49.95

MFJ 20-meter CW Cub Transceiver Kit. Order No. 0018.....\$89.95

L/C/F and Single-Layer Coil Winding Calculator. Order No. 9123.....\$12.95

Introduction to Radio Frequency Design. Order No. 4920.....\$39.95

ARRL's RF Amplifier Classics. Order No. 9310.....\$19.95

More QRP Power. Order No. 9655.....\$19.95

QRP Romps. Order No. 0160.....\$18

ARRL's Low Power Communication. 3rd Edition. Order No. 1042.....\$19.95

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

Order No. 1042K.....\$99.95

Do-It-Yourself Circuitbuilding for Dummies. Order No. 0015.....\$24.99

Electronics for Dummies. 2nd Edition. Order No. 0196.....\$24.99

Electronics Projects for Dummies. Order No. 9944.....\$24.99

Practical Digital Signal Processing. Order No. 9331.....\$46.95

Power Supply Handbook. Order No. 9977.....\$29.95

Electromagnetic Compatibility Engineering. Order No. 0192.....\$120

Discrete-Signal Analysis and Design. Order No. 0140.....\$125

RF Components and Circuits. Order No. 8759.....\$50.95

Practical Radio Frequency Test & Measurement. Order No. 7954.....\$66.95

Communications Receivers. Order No. CR3E.....\$94.95

Radio Receiver Design. Order No. RRCd.....\$95

HF Radio Systems & Circuits. Order No. 7253.....\$89

Build Your Own Low-Power Transmitters. Order No. 9458.....\$54.95

AC Power Interference Handbook. Order No. 1103.....\$34.95

Power Supply Cookbook. Order No. 8599.....\$54.95

Instruments of Amplification. Order No. 9163.....\$19.95

RSGB Homebrew Cookbook. Order No. 0232.....\$24.95

NEW! RSGB Elimination of Electrical Noise. Order No. 1082.....\$12.95

RSGB International QRP Collection. Order No. 0020.....\$24.95

RSGB Weekend Projects for the Radio Amateur. Order No. 0123.....\$24.95

Digital and Image Communications

VHF Digital Handbook—1st Edition.

Everything you need to get started in digital radio applications. Includes Packet Radio, APRS, D-Star, digital applications in public service and emergency communications, and more!

Order No. 1220.....\$19.95

ARRL's HF Digital Handbook. 4th Edition.

Order No. 1034.....\$19.95

VoIP: Internet Linking for Radio Amateurs. 2nd Edition.

Order No. 1431.....\$24.95

GPS and Amateur Radio. Order No. 9922.....\$18.95

The ARRL Image Communications Handbook.

Order No. 8616.....**\$19.95**.....~~\$25.95~~

Your Guide to HF Fun. Order No. 0153.....\$16

RSGB RTTY/PSK31 for Radio Amateurs. Order No. 0329.....\$15.95

Nifty E-Z Guide to PSK31 Operation. Order No. 0370.....\$12.95

Nifty E-Z Guide to D-STAR Operation. Order No. 0125.....\$13.95

NEW! Nifty E-Z Guide to EchoLink Operation. Order No. 1094.....\$13.95

Digital Communication Systems Using SystemVue. Order No. 1084.....\$49.99

ARRL The national association for
AMATEUR RADIO®

SHOP DIRECT or call for a dealer near you.
ONLINE WWW.ARRL.ORG/SHOP
ORDER TOLL-FREE 888/277-5289 (US)

Public Service and Emergency Communications

The ARRL Digital Technology for Emergency Communications Course.

CD-ROM, version 1.0 Order No. 1247.....\$49.95

The ARRL Emergency Communications Handbook. Order No. 9388.....\$19.95

The ARRL Emergency Communication Library. CD-ROM, version 1.0

Order No. 9868.....\$19.95

ARES Field Resource Manual. Order No. 5439.....\$12.95

Emergency Power for Radio Communications. Order No. 9531.....\$19.95

PR-101 Course on CD-ROM. Order No. 0133.....\$19.95

ARES Hat. Order No. 0099.....\$14.95

ARES Mesh Vest. (M-3XL) Order No. 0128.....\$15.95

ARES Solid Vest with Pockets. (M-3XL) Order No. 0136.....\$24.95

Space and VHF/UHF/Microwave Communications

The ARRL Satellite Handbook. Order No. 9857.....\$24.95

NOVA for Windows. CD-ROM. Order No. 8724.....\$59.95

RSGB Radio Nature. Order No. 0240.....\$24.95

NEW! RSGB Amateur Radio Astronomy. 2nd Edition. Order No. 0388.....\$32.95

The ARRL UHF/Microwave Projects CD. Order No. 8853.....\$24.95

International Microwave Handbook. 2nd Edition. Order No. 0330.....\$29.95

RSGB VHF/UHF Handbook. 2nd Edition. Order No. 1229.....\$29.95

RSGB Microwave Projects. Order No. 9022.....\$29.95

RSGB Microwave Know How. Order No. 0303.....\$21.95

History and Adventure

The Secret Wireless War—Softcover Edition.

The Story of M16 Communications—1939-1945 (World War II). This is an extraordinary story that includes hams among those patriots that undoubtedly helped the allied war effort.

Order No. 0262.....\$39.95

Edgar Harrison. Order No. 0270.....\$29.95

YASME—The Danny Weil and Colvin Radio Expeditions.

Order No. 8934.....\$24.95

Hiram Percy Maxim. Order No. 7016.....\$19.95

200 Meters and Down. Order No. 0011.....\$12

The Gil Cartoon Book. Order No. 0364.....\$15.95

The Story of W6RO and the Queen Mary. DVD Order No. 1344.....\$15.95

Crystal Clear. Order No. 0353.....\$58.50

Don C. Wallace: W6AM, Amateur Radio's Pioneer. Order No. 0016.....\$29.95

World War II Radio Heroes: Letters of Compassion.

Order No. 1268.....\$15.95

Perera's Telegraph Collector's Guide. Order No. 1277.....\$19.95

Perera's Telegraph Collectors Reference CD-ROM. Order No. 1282.....\$15

The Story of the Enigma CD-ROM. Order No. 1296.....\$15

NEW! Inside Enigma. Order No. 0611.....\$19.95

Keys II: The Emporium. Order No. 1372.....\$16

Keys III: The World of Keys. Order No. 1381.....\$18

Oscar's Amateur Radio Adventure. Order No. 0341.....\$19.95

Full Circle: A Dream Denied, A Vision Fulfilled. Order No. 0152.....\$13.95

Frozen in Time. Order No. 0098.....\$14.95

Ordering Information

For a complete publications listing or to place an order, please contact us:

1. To order or obtain the address of an ARRL Dealer near you, call toll-free (US):

1-888-277-5289 (non-US call 860-594-0355) 8 AM-5 PM Eastern time,

Monday-Friday.

2. Fax 1-860-594-0303 24 hours a day, 7 days a week.

3. By mail to: ARRL, 225 Main St, Newington CT 06111-1494

4. Visit our World Wide Web site: <http://www.arrl.org/shop>

Shipping and Handling Rates:

Add the following amounts to your order to cover shipping and handling (S/H). US orders will be shipped via a ground delivery method. Orders outside of the US will be shipped via an international delivery service. Express delivery options and other specialty forwarding services are available. Please call, write or email for more information.

Order Value	US	International Economy 2-4 weeks delivery
Up to \$20.00	\$7.50	\$15.00
\$20.01 to \$50.00	\$10.50	\$25.00
\$50.01 to \$250.00	\$12.50	\$35.00
Single CD-ROM	First Class Mail \$2.75	n/a
Over \$250	Contact ARRL for shipping options and rates: orders@arrl.org	

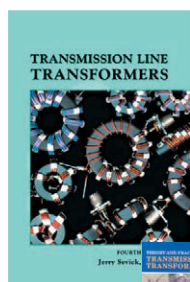


Sales Tax:
CT add 6% state sales tax (including S/H). VA add 5% sales tax (excluding S/H). Canadian Provinces NS, NB and NL add 13% HST (excluding S/H), all other Provinces add 5% GST (excluding S/H).

We accept the following major credit cards: American Express, MasterCard, Visa and Discover. Prices and product availability are subject to change without notice.

12 Marketplace

www.arrl.org/shop ■ 1-888-277-5289



Transmission Line Transformers

4th Edition

Order No. TLT4 – \$75

Tremendous coverage of the subject of broadband transmission line transformers. Guanella and Ruthroff as well as hundreds of real transformers.

CD-ROM tutorial

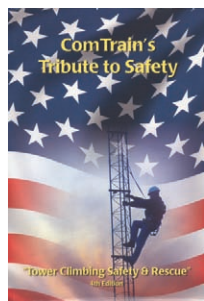
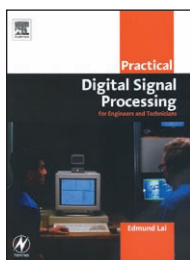
Order No. 9088 – \$129



Practical Digital Signal Processing

Applications of DSP, from process control to communications. Covers implementation issues, tricks and pitfalls.

Order No. 9331 – \$52.95



Tower Climbing Safety & Rescue

4th Edition

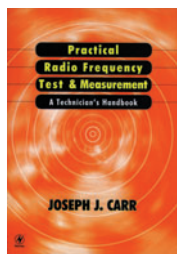
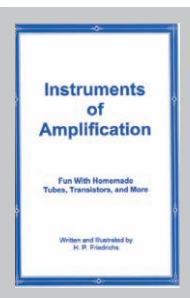
Order No. 1108 – \$29.95

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.

Instruments of Amplification

Order No. 9163 – \$19.95

Fun with homemade tubes, transistors, and more. Hands-on details for constructing an amazing array of homebrew amplifying devices.



Practical Radio Frequency Test & Measurement

Order No. 7954 – \$66.95

Learn the basics of performing tests and measurements used in radio-frequency systems installation, proof of performance, maintenance, and troubleshooting.

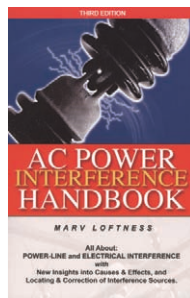
AC Power Interference Handbook

3rd Edition

Marv Loftness, KB7KK

Order No. 1103 – \$34.95

All About: **POWER-LINE** and **ELECTRICAL INTERFERENCE** with New Insights into Causes & Effects, and Locating & Correction of Interference Sources.



Antennas: Fundamentals, Design, Measurement

Standard Edition

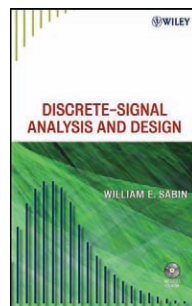
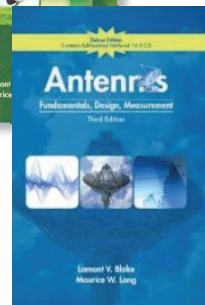
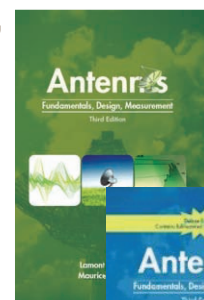
Order No. 0320 – \$99

For anyone seeking solid grounding in the basics of antenna design and performance. Covers antenna principles, concept design, performance analysis, and measurements. **CD-ROM included!**

Deluxe Edition

Order No. 0175 – \$149

Includes a full-featured copy of Mathcad 14.0!



Discrete-Signal Analysis and Design

William E. Sabin, WØIYH

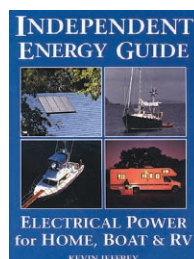
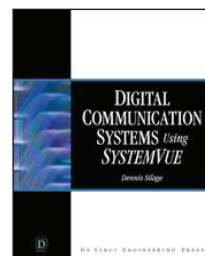
Order No. 0140 – \$125

An introduction to discrete-time and discrete-frequency signal processing. Includes concepts and practical uses, for communications and radio engineers. **Includes CD-ROM** of Academic Mathcad Program, v. 14.0.

Digital Communication Systems Using SystemVue

An essential guide for anyone wishing to understand digital communication systems through simulations using SystemVue. Ideal for technicians, professionals, and students with a basic knowledge in analog communications. **CD-ROM included!**

Order No. 1084 – \$49.99



Independent Energy Guide

Electrical Power for Home, Boat & RV

Order No. 8601 – \$19.95

A resource for understanding and managing power systems. Covers fixed, portable, and mobile energy systems including solar, wind- and water-powered generators, battery chargers, and more.

Build Your Own Low-Power Transmitters

Order No. 9458 – \$54.95

Twenty low-power transmitter projects for the radio experimenter. Complete source information is included to help readers find kits and parts for building these fascinating projects.



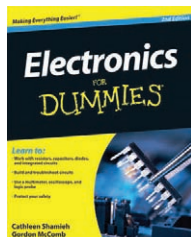
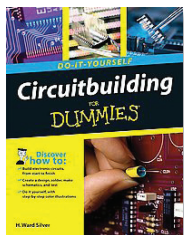
"For Dummies" Series

Electronics for Dummies

2nd Edition

Order No. 0196 – \$24.99

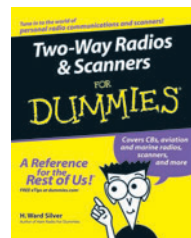
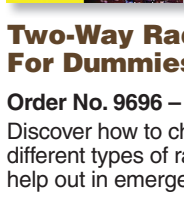
Make something fascinating of electronics. Learn how electricity functions, how to put it to work, what tools you need to build circuits, what you can make with them, and more.



Circuitbuilding for Dummies

Order No. 0015 – \$24.99

A fun and easy way to start building circuits for your projects. Includes all the tools and techniques you need, with illustrated, step-by-step directions.



Two-Way Radios & Scanners For Dummies

Order No. 9696 – \$21.99

Discover how to choose and operate different types of radios, program a scanner, help out in emergencies and more.



Electronics Projects for Dummies

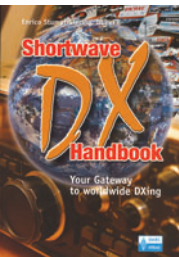
Order No. 9944 – \$24.99

Build fun gadgets and gain knowledge of how various electronic parts work. Step-by-step directions for ten cool creations – remote control gizmos, talking toys, and more.

RF Components and Circuits

Order No. 8759 – \$50.95

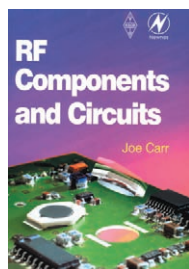
A comprehensive introduction to understanding, designing and building RF circuits, including fault-finding and use of test equipment.



Shortwave DX Handbook

Order No. 9953 – \$34.95

Your gateway to worldwide DXing! Includes long distance radio operating, awards and contests, organizing DXpeditions, and loads of valuable references.



Inside Enigma

Order No. 0611 – \$19.95

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

NEW!



The Secret Wireless War

Softcover Edition

Order No.0262 – \$39.95

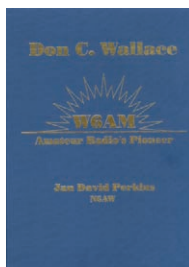
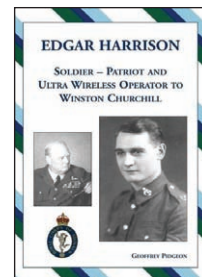
The most complete book yet written on Britain's secret radio communications during WWII. It's an extraordinary story that includes hams among those patriots that undoubtedly helped the allied war effort.

Edgar Harrison

Soldier-Patriot and Ultra Wireless Operator to Winston Churchill

Order No. 0270 – \$29.95

A remarkable story of Edgar Harrison and the adventures he encountered throughout WWII.



Don C. Wallace, W6AM

Order No. 0016 – \$29.95

This book traces the life of Don Wallace, and the early history of Amateur Radio. Through his interest and dedication, Don made a lasting imprint on the Amateur Radio community.

World War II Radio Heroes

Order No. 1268 – \$15.95

A story about ham radio operators alerting families of POWs during a time of war. It features more than 30 letters sent to the author's family in 1943, notifying them of her grandfather's capture.

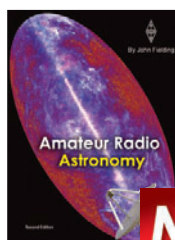


More ARRL Marketplace Publications

- **Build Your Own Test Equipment.** Order No. 8604\$62.95
- **Electromagnetic Compatibility Engineering.** Order No. 0192\$120
- **Electronic Applications of the Smith Chart.** Order No. 7261\$85
- **Frozen in Time** Order No. 0098\$14.95
- **Full Circle** Order No. 0152\$13.95
- **HF Radio Systems & Circuits.** Order No. 7253\$95
- **Hiram Percy Maxim.** Order No. 7016\$19.95
- **World of Amateur Radio.** Order No. 0257\$55
- **Keys II: The Emporium.** Order No. 1372\$16
- **Keys III: The World of Keys.** Order No. 1381\$18
- **Oscar's Amateur Radio Adventure.** Order No. 0341\$19.95
- **Power Supply Cookbook.** Order No. 8599\$63.95
- **QRP Quarterly 1979-2004 DVD.** Order No. 9668\$34.95
- **QRP Quarterly 1979-2004 CD-ROM.** Order No. 9651\$34.95
- **QRP Romps.** Order No. 0160\$18
- **Radio-Electronic Transmission Fundamentals.** Order No. RETF\$95
- **Radio Receiver Design.** Order No. RRCD\$105
- **Perera's Telegraph Collectors Guide.** Order No. 1277\$19.95
- **Perera's Telegraph Collectors CD.** Order No. 1282\$15
- **Ten-Tec: The First 40 Years.** Order No. 0111\$19.95
- **The Story of the Enigma CD.** Order No. 1296\$15
- **Transmitter Hunting.** Order No. 2701\$24.95
- **Your Guide to HF Fun.** Order No. 0153\$16

14 operating

www.arrrl.org/shop ■ 1-888-277-5289



Amateur Radio Astronomy

2nd Edition

Order No. 0388 – \$32.95

Explore the contributions of radio amateurs to the science of radio astronomy and how the average amateur can make and set up equipment to study the signals coming from space. 384 pages.

NEW!

6 Metre Handbook

Order No. 0340 – \$24.95

Avid 6 meter operators will tell you that nothing is quite like the surprises you'll find on the "Magic Band." Here is the most up-to-date guide to exploring all the excitement. 176 pages.



Radio Nature

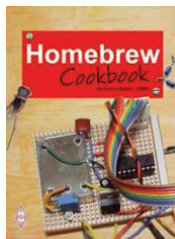
Order No. 0240 – \$24.95

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

HF Antennas for Everyone

Order No. 0145 – \$24.95

Divided into horizontal, vertical and loop antennas, this book features a combination of both the traditional and most recent designs. Includes sections on feeders, aerials and Stealth antennas. 366 pages.



Homebrew Cookbook

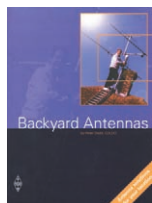
Order No. 0232 – \$24.95

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

HF Antennas for All Locations

Order No. 4300 – \$34.95

Design and construction details for hundreds of antennas, including some unusual designs. Don't let a lack of real estate keep you off the air! 322 pages.



Backyard Antennas

Order 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.

Stealth Antennas

Order No. 3208 – \$24.95

Practical solutions for hams unable to put up large antenna towers and get on the air! 208 pages.



HF Antenna Collection

Order No. 3770 – \$34.95

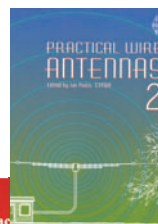
Articles from RSGB's *RadCom* magazine. Single and multi-element horizontal and vertical antennas, very small transmitting and receiving antennas, feeders, tuners and more. 240 pages.



Practical Wire Antennas 2

Order No. 9563 – \$24.95

Filled with "how to" information! Easy to understand designs for a wide range of wire antennas: feed lines, dipoles, antennas with tuned feeders, loop antennas, end-fed wires and verticals. 176 pages.



Practical Wire Antennas 1

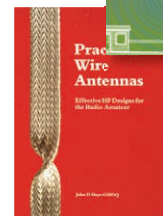
Order No. R878 – \$17



Antennas for VHF and Above

Order 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.



Building Successful HF Antennas

Order No. 0800 – \$34.95

Learn what makes an effective HF antenna, how to build one, and how to measure its performance. This book uses real places, so you're able to obtain optimum performance at any location. 224 pages.



RSGB IOTA Directory

45th Anniversary Edition

Order No. 0112 – \$19.95

Celebrating 45 Years of the IOTA (Islands on the Air). Plus, everything you need to enjoy collecting or operating from islands for this popular worldwide program! 128 pages.



RSGB Prefix Guide

9th Edition

Order No. 0180 – \$19.95

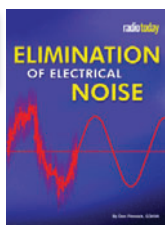
Complete guide to call sign prefix identification and information. Includes DXCC listings, award details and more. 80 pages.

Elimination of Electrical Noise

Order No. 1082 – \$12.95

Learn about the types of noise radio operators experience, how it's generated, and the most practical way to deal with it. 64 pages.

NEW!



RTTY/PSK31 for Radio Amateurs

Order No. 0329 – \$15.95

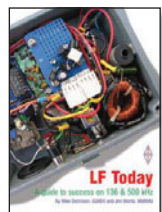
This book is the most practical guide on the two most popular data modes used today, RTTY and PSK31. It covers a brief history, basic RTTY theory, operating, setting up PSK, contests and more. **CD-ROM included!** 32 pages.

Morse Code for Radio Amateurs

10th Edition

Order No. 0221 – \$15.95

Essential for anyone who wants to add Morse code to their skills. It covers the history of Morse code, how to get started, abbreviations, increasing your speed and more. **CD-ROM included!** 32 pages.



LF Today

2nd Edition

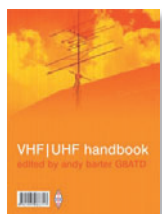
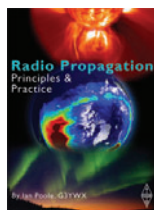
Order No. 0220 – \$24.95

All the information you need to succeed on 136 & 500 kHz. Advice and techniques for amateurs just starting out, and reference information for those who already have some experience in LF. 160 pages.

Radio Propagation—Principles & Practice

Order No. 9328 – \$29.95

A guide to radio propagation from HF to VHF, UHF and beyond. Includes practical understanding for radio waves, the atmosphere, ionospheric propagation, meteor scatter, space communications and more. 112 pages.



VHF/UHF Handbook

2nd Edition

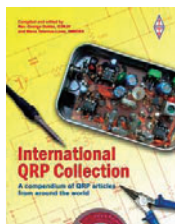
Order No. 1229 – \$29.95

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.

International QRP Collection

Order No. 0020 – \$24.95

A compilation of the art and science of QRP. Contains articles from many Amateur Radio magazines including RadCom, QST, Sprat, Break In, as well as new material. Something for all low-power enthusiasts! 176 pages.



The Amateur Radio Operating Manual

Order No. 2300 – \$29.95

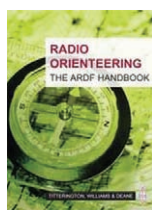
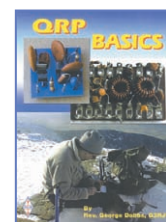
Practical information on the different aspects of Amateur Radio, including basic operating practices and setting up your station for maximum efficiency. Especially useful for DX'ers and Contesters. 224 pages.

NEW!

QRP Basics

Order No. 9031 – \$29.95

Explore the fun of operating 5 watts and less. Inexpensive and exciting! Improve your QRP station, build a working transmitter or receiver, accessories, and more. 208 pages.



Radio Orienteering—The ARDF Handbook

Order No. 0131 – \$19.95

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 within a given time limit. 112 pages.

Weekend Projects

Order No. 0123 – \$24.95

Over 60 articles of projects—something for everyone! Ideal for experimenters looking for interesting ideas to construct and for newcomers looking to expand their knowledge of the hobby. 224 pages.



Microwave Know How

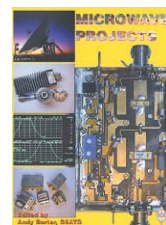
Order No. 0303 – \$21.95

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.

Microwave Projects

Order No. 9022 – \$29.95

Complete designs and ideas for the microwave experimenter: signal sources, transverters, power amplifiers, test equipment and more. 200 pages.



RadCom Magazine

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). And, Airmail Delivery!

For details, contact ARRL:

1-888-277-5289 • circulation@arrrl.org

16 Station Resources

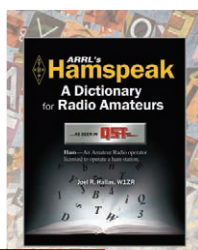
www.arrl.org/shop ■ 1-888-277-5289

Hamspeak— A Dictionary for Radio Amateurs

Order No. 8423 – \$17.95

ARRL Member Price! \$15.95

A collection of terms and phrases commonly used in the ham radio community. As seen in QST magazine, it was created to make articles easier for newcomers to understand. Over 1,300 entries!



NEW!



Pocket Ref

Thomas J. Glover

Order No. 1148 – \$12.95

All the information you need in one essential reference book. The cover is embossed with ARRL's logo and logotype—making this a particularly special edition of this popular guide.

Amateur Radio Station Log Book

Order No. 1250 – \$7.95

52 log pages with room for 25 contacts per page (1,300 total log entries). Spiral bound (8.5 x 11")



MINILOG

Order No. 7539 – \$4.95

Wire-bound (6.25 x 4")



Log Sheets

Order No. 1265 – \$4

Klingenfuss Publications

2011 Shortwave Frequency Guide

15th Edition

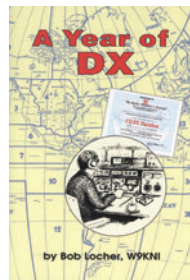
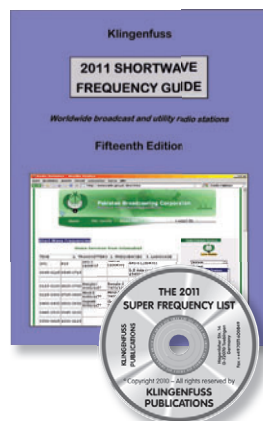
Order No. 0113 – \$59.95

The latest schedules of worldwide broadcast and utility radio stations.

2011 Super Frequency List CD-ROM

Order No. 0137 – \$44.95

More than 40,000 entries cover both broadcast and utility stations. Hundreds of fascinating new digital data decoder screenshots! Requires Windows.

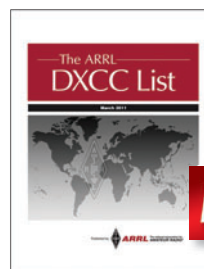


A Year of DX

Bob Locher, W9KNI

Order No. 0040 – \$20

A personal journey of the challenges, joys and sorrows experienced in pursuit of winning the CQ DX Marathon.



The ARRL DXCC List

March 2011 Edition

Order No. 7617 – \$5.95

The official source of DXCC awards information. Record the DXCC Entities you've worked and QSLed. A "must have" for every DXer!

NEW!

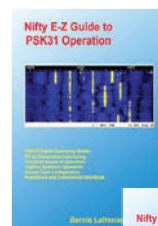
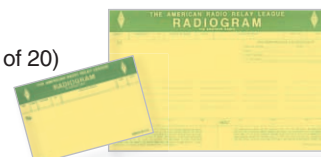
Radiograms For Traffic Handlers

Order No. 1310 – \$2

Message Delivery Cards (package of 20)

Order No. 1320 – \$2

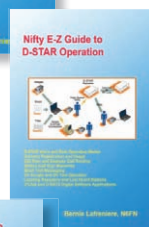
Message Pad with 70 sheets



Nifty E-Z Guide to D-STAR Operation

Order No. 0125 – \$13.95

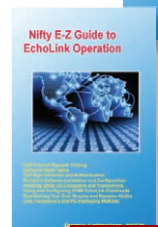
The first comprehensive reference to the world of D-STAR operation!



Nifty E-Z Guide to PSK31 Operation

Order No. 0370 – \$12.95

A complete guide for implementing PSK31!



Nifty E-Z Guide to EchoLink Operation

Order No. 1094 – \$13.95

Your complete guide to EchoLink installation and operation!

NEW!



Radio Setup Guides

Simplify setup and operation. Mini-Manuals and Pocket Reference Cards available for select Kenwood, Icom, and Yaesu models. Visit www.arrl.org/shop

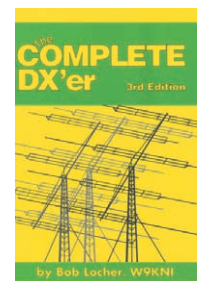
The Complete DX'er

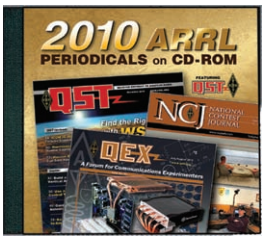
3rd Edition

Bob Locher, W9KNI

Order No. 9073 – \$19.95

Covers nearly every aspect of DXing. Learn how to REALLY listen, how to snatch the rare ones out of the pile-ups, the excitement of landing the new one, and the agony of defeat.





ARRL Periodicals on CD-ROM

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

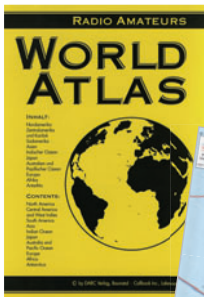
SEARCH the full text of every article by entering titles, call signs, names—almost any word.

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

PRINT what you see, or copy it into other applications.

System Requirements: Microsoft Windows™. 1999-2009 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).

Maps



The Radio Amateurs World Atlas

Order No. 5226 – \$12.95

Booklet of full-color maps, call-sign prefixes and more.

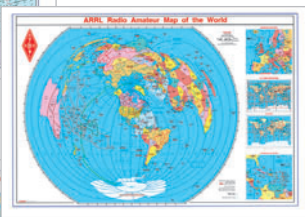
- ARRL World Grid Locator Atlas
Order No. 2944 – \$5.95
- Grid Locator (US Grid Squares)
Order No. 1290 – \$1
- Polar Map (for OSCAR)
Order No. 1300 – \$1



ARRL Map of North America

Order No. 8977 – \$15

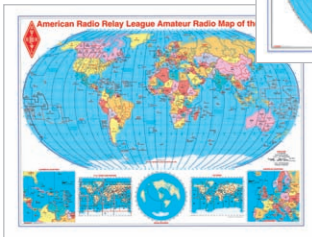
27 x 39 inches.



ARRL Map of the World

Order No. 7717 – \$15

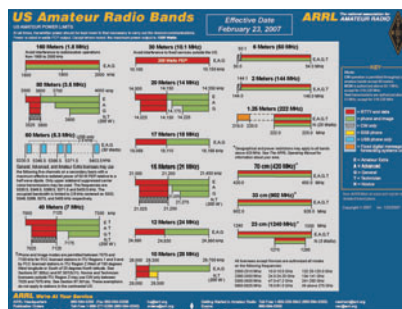
(Azimuthal) 27 x 39 inches.



US Amateur Radio Bands Chart

Order No. 1126 – \$3

Size 11x17 inches. ARRL Worked All States (WAS) map on backside.



All QST, QEX and NCJ issues on one CD.

- 2010 Edition, Order No. 2001 – \$24.95
- 2009 Edition, Order No. 1486 – \$24.95
- 2008 Edition, Order No. 9406 – \$24.95
- 2007 Edition, Order No. 1204 – \$19.95
- 2006 Edition, Order No. 9841 – \$19.95
- 2005 Edition, Order No. 9574 – \$19.95
- 2004 Edition, Order No. 9396 – \$19.95
- 2003 Edition, Order No. 9124 – \$19.95
- 2002 Edition, Order No. 8802 – \$19.95
- 2001 Edition, Order No. 8632 – \$19.95
- 2000 Edition, Order No. 8209 – \$19.95
- 1999 Edition, Order No. 7881 – \$19.95
- 1997 Edition, Order No. 6729 – \$19.95
- 1996 Edition, Order No. 6109 – \$19.95
- 1995 Edition, Order No. 5579 – \$19.95

More CDs



Radio Amateur Callbook CD-ROM

Summer 2011 Edition
Order No. 0210 – \$49.95

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

NEW!

Buckmaster's HamCall™ CD-ROM

Order No. 8991 – \$49.95

Look up hams by call, name, street address, city, state, postal code, county, and country.

Over 2,000,000 worldwide call sign listings.



Nova for Windows

Order No. 8724 – \$59.95

An innovative, real-time satellite tracking program.



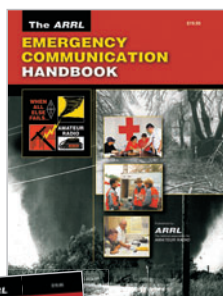
18 Emergency Communications

www.arrl.org/shop ■ 1-888-277-5289

The ARRL Emergency Communication Handbook

Order No. 9388 – \$19.95

Includes details on basic emergency communication skills, message handling, ARES, RACES, MARS and other organizations.

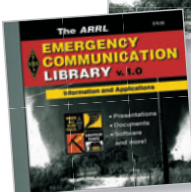


The ARRL Emergency Communication Library

CD-ROM, version 1.0

Order No. 9868 – \$19.95

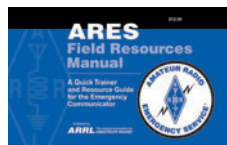
Contains documents and presentations on many aspects of emergency radio communication operating.



ARES Magnetic Sign

Order No. 9413 – \$12.95

Perfect for use at public service and emergency communications support activities. Size 8 x 18 inches.



ARES® Field Resources Manual

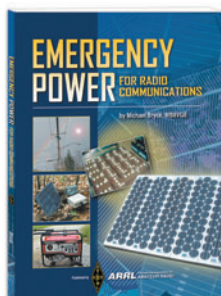
Order No. 5439 – \$12.95

A quick trainer and field resource guide for the emergency communicator.

PR-101 Course on CD-ROM

Order No. 0133 – \$19.95

Designed to give hams a quick course in public relations activities. It uses various aspects of public relations to provide volunteer Public Information Officers with the basic skills PIO needs to know. Covers basic news release, Web sites, video work, and more.



Emergency Power for Radio Communications

Michael Bryce, WB8VGE

Order No. 9531 – \$19.95

Explore the various means of electric power generation, from charging batteries, to keeping the lights on. This book covers the foundation of any communications installation — the power source.

ARES Deployment Gear

■ Neon Mesh Vest (M-3XL).

Order No. 0128 – \$15.95

■ Neon Solid Vest (M-3XL).

Order No. 0136 – \$24.95

■ Neon Hat.

Order No. 0099 – \$14.95

Great for ARES volunteers, emergency and public service use. One size fits most. ANSI/ISEA 107-2004 Class 2 compliant.



ARES 75th Anniversary Challenge Coin

Order No. 0129 – \$19.95

This medallion features the ARES 75th anniversary logo. The ARRL diamond and words "Amateur Radio Service" are depicted on the back. 1-1/2" round.



ARES Pin

Order No. 0241 – \$5.00

This colorful pin will symbolize your involvement in the Amateur Radio Emergency Service (ARES). Wear it proudly! Size 1" round.

ARES decals, stickers, and patches are also available at www.arrl.org/shop.



The ARRL Digital Technology for Emergency Communications Course

Self-study, CD-ROM, version 1.1

Order No. 1247 – \$49.95

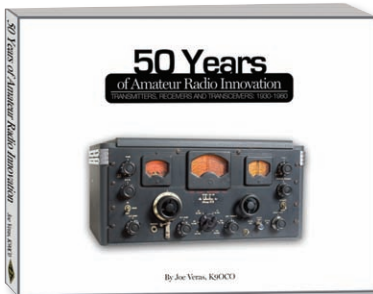
In this course, we will introduce you to all the ways Amateur Radio operators are using digital technology as a valuable emergency communications tool. The topics covered include:

- Packet radio APRS
- Winlink 2000
- IRLP
- EchoLink and WIRES-II
- D-STAR
- APCO25
- HF sound card modes
- Automatic Link Establishment ("ALE")

Illustrations, screenshots, Internet links and audio are used to demonstrate transmission modes and equipment configurations. Bite-sized learning units make learning interesting and fun!

Requires Microsoft Windows® Vista/XP/2000/NT/98/95 or Apple OS X.

Revisit the Ham Radio of Yesteryear!



50 Years of Amateur Radio Innovation Transmitter, Receivers and Transceivers: 1930-1980

Joe Veras, K9OCO

Order No. 0228 – \$39.95

This book takes you on a guided tour of more than 400 legendary radios from 1930 – 1980, the “golden age” of American Radio Technology. This 50-year span saw the introduction of receivers, transmitters and transceivers that would become famous throughout the world.

These treasured favorites have been restored by their owners and gorgeously photographed by Joe Veras, K9OCO. Each photo includes a brief description, the year the radio was introduced and its selling price at the time.

50 Years of Amateur Radio Innovation Supplementary CD

Joe Veras, K9OCO

Order No. 3558 – \$19.95

This CD-ROM includes over 800 fascinating images, photographed by Joe Veras, K9OCO, not featured in the book **50 Years of Amateur Radio Innovation** (sold separately). It contains a complete listing of the manufacturers and legendary equipment displayed. Many of the radios are quite rare. Others are sure to bring fond memories of equipment you may have owned yourself.

Inside you'll find...

- Transmitters
- Receivers
- Transceivers
- Amplifiers
- Tuners
- Keyers
- Other Accessories

*Over 800 MORE
Images!*



ARRL's Vintage Radio

Order No. 9183 – \$19.95

This collection of *QST* articles covers the lure of vintage Amateur Radio gear between 1977 and 2003.

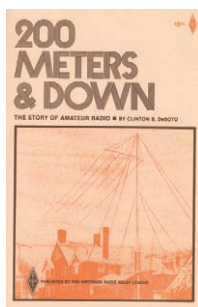
- Equipment
- Techniques
- Personal Experiences
- Restoration
- Classic Ads
- ...and more!

200 Meters & Down

The Story of Amateur Radio

Order No. 0011 – \$12.00

This book chronicles the exciting evolution of Amateur Radio from the pioneers who perfected the wireless art, through the technical advances of the mid-1930s.



The Gil Cartoon Book

A Collection of Classic Cartoons from *QST*

Order No. 0364 – \$15.95

This publication is more than a book of illustrations. It is a tribute to a legend, a man who created more than 1500 pieces of art for *QST*. 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 (this first edition collection of Gil's cartoons was originally introduced in 1986).

*For more ARRL products visit
www.arrl.org/shop*

20 Member Benefits & Services

www.arrl.org/shop ■ 1-888-277-5289

QST Monthly Magazine

QST covers new trends and the latest technology, fiction, humor, news, club activities, rules and regulations, special events, and much more. Here is some of what you will find every month:

- Informative product reviews of the newest radios and accessories
- A monthly conventions and hamfest calendar
- A public service column that keeps you up to date on the public service efforts hams are providing around the country and shows you how you can join in this satisfying aspect of our hobby
- Eclectic Technology, a monthly column that covers emerging Amateur Radio and commercial technology
- A broad spectrum of articles in every issue ranging from challenging topics to straightforward, easy-to-understand projects

ARRL members also get preferred subscription rates for QEX, the ARRL Forum for Communications Experimenters.

Members-Only Web Services

- **QST Archive and Periodical Search**
Search for articles from issues of QST, QEX and NCJ by title or author. Download digital copies of QST articles from December 1915 through December 2007.
- **FREE E-Newsletters**
Subscribe to a bunch of FREE e-newsletters: ham radio news, radio clubs, public service, contesting and more!
- **Product Review Archive**
Get copies of any QST Product Review column from 1980 to the present.
- **E-Mail Forwarding Service**
Email sent to your arrl.net address will be forwarded to any email account you specify.
- **ARRL Member Profile**
Create an online ARRL Member Profile (upload photos, articles and short videos) and connect with other ARRL members via a searchable online Member Directory.
- **Customized ARRL.org home page**
Customize your home page to see local ham radio events, clubs and news.

Technical Information Service (TIS)

Get answers on a variety of technical and operating topics through ARRL's Technical Information Service. Our experts can help you overcome hurdles and answer all your questions.

Member Benefit Programs and Discounts

- **ARRL Ham Radio Equipment Insurance Plan**
Insurance is available to protect you from loss or damage to your station, antennas and mobile equipment by lightning, theft, accident, fire, flood, tornado, and other national disasters.
- **MetLife® Auto, Home, Renters, Boaters, Fire Insurance and Banking Products**
As an ARRL member you could enjoy up to a 10% discount on various insurance programs.
- **The ARRL Visa Signature® Card**
Show your ham radio pride with the ARRL Visa credit card. You earn great rewards and every purchase supports ARRL programs and services.

Outgoing QSL Service

Let us be your mail carrier and handle your overseas QSLing chores. The savings you accumulate through this service alone can pay your membership dues many times over.

Continuing Education

Take courses to help you prepare to pass your license exam, upgrade, learn more about Amateur Radio activities, or train for emergency communications or public service. ARRL also offers hundreds of books, CDs and videos on the technical, operating, and licensing facets of Amateur Radio.

Regulatory Information Branch

Reach out to our Regulatory Information Branch for information on FCC and regulatory questions; problems with antenna, tower and zoning restrictions; and reciprocal licensing procedures.

ARRL as an Advocate

ARRL supports legislation in Washington, D.C. that preserves and protects access to existing Amateur Radio frequencies as a natural resource for the enjoyment of all hams. As a member, you contribute to the efforts to preserve our privileges.

www.arrl.org/join

Public Service

Advocacy

Education

Technology

Membership



Order Form

Join ARRL:

ARRL Membership dues:

US rates: ☐ 1 Year¹ \$39 ☐ 2 Years² \$76 ☐ 3 Years³ \$111

Date of Birth ____/____/____
MM DD YYYY

¹1-year membership dues include \$15 for a 1-year subscription to QST. ²2-year membership dues include \$30 for a 2-year subscription to QST. ³3-year rates include \$45 for a 3-year subscription to QST. Life, Blind, International, First Class QST and Youth Memberships available at special rates. Contact ARRL for details.

ARRL Subscriptions for one year (US rates):

☐ QEX—Forum for Communications Experimenters, \$24

(non-ARRL members \$36)

☐ NCJ—National Contest Journal, \$20

Subscription amount \$ _____

Name _____ Call _____

Address _____ Apt # _____

City _____ State _____ ZIP _____

Order Publications:

Shipping Address:

Name _____ Call _____

Address _____ Apt # _____

City _____ State _____ ZIP _____

☐ Check here if gift. Gift from _____

www.arrl.org/shop ■ 1-888-277-5289

Shipping and Handling Rates:

Add the following amounts to your order to cover shipping and handling (S/H). US orders will be shipped via a ground delivery method. Orders outside of the US will be shipped via an international delivery service. Express delivery options and other specialty forwarding services are available. Please call, write or email for more information.

Order Value	US	International Economy 2-4 weeks delivery
Up to \$20.00	\$7.50	\$15.00
\$20.01 to \$50.00	\$10.50	\$25.00
\$50.01 to \$250.00	\$12.50	\$35.00
Single CD-ROM	First Class Mail \$2.75	n/a
Over \$250	Contact ARRL for shipping options and rates: orders@arrl.org	

Sales Tax:

CT add 6% state sales tax (including S/H). VA add 5% sales tax (excluding S/H). Canadian residents of Nova Scotia, New Brunswick and Newfoundland add 14% HST, all other provinces add 6% GST (excluding S/H).

Save time—order by credit card:

Toll-free: **1-888-277-5289**

Mon-Fri, 8 AM to 5 PM ET

www.arrl.org/shop

*Thank you
for your order!*

Item Number	Quantity	Title or Item Name	Price Each	Total

CAT 4/2011

Subtotal

☐ Check here if you do not wish your name and address made available for non-ARRL mailings.

Enter Shipping and Handling fee (see fee schedule)

Delivery to CT, VA and Canada, add applicable tax (see note)

If joining ARRL or subscribing to QEX or NCJ, please insert total here

Total

\$

Method of payment: ☐ Check/Money order payable to ARRL \$ _____ ☐ MasterCard ☐ Visa ☐ Discover ☐ American Express
(must be in US funds drawn on a US bank)

Credit Card Number: _____ MM/YY Expiration ____ / ____

Your Signature _____ Daytime Phone _____

Mail your order to: ARRL, 225 Main Street, Newington, CT 06111-1494 USA



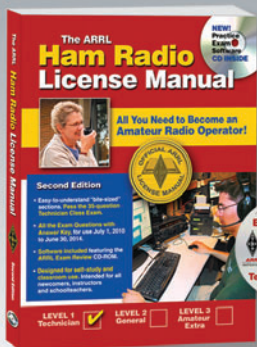
ARRL The national association for
AMATEUR RADIO®

225 Main Street ■ Newington, CT 06111-1494

Non-Profit Org.
US Postage
PAID
Permit #601
Burlington, VT

ARRL License Manuals

Now Including Practice Exam Software!



Level
1

ARRL's popular license manuals just got even better!

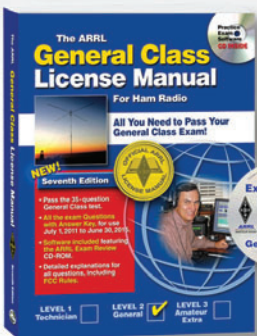
Each book now includes the ARRL Exam Review CD-ROM. Use the software with your book to review the study material. Take randomly-generated practice exams using questions from the actual examination question pool. Additional features allow you to print sample exams...as many as you like. ARRL Exam Review tracks your progress, giving you the feedback you need to fine-tune your studies. **You won't have any surprises on exam day!**

Get your **FIRST** ham radio license!

The ARRL Ham Radio License Manual—Second Edition

Let ARRL guide you as you get started in Amateur Radio—as you select your equipment, set-up your first station and make your first radio contact.

- Easy-to-understand “bite-sized” sections. Pass the 35-question Technician Class exam.
- **Includes the latest question pool with answer key**, for use through June 30, 2014.
- **Software** included featuring the **ARRL Exam Review** CD-ROM.
- Intended for all newcomers, instructors and schoolteachers.



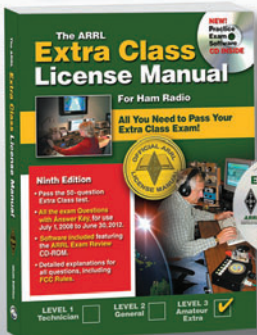
Level
2

Upgrade and enjoy more frequency privileges!

The ARRL General Class License Manual—Seventh Edition

Upgrade to General and experience the thrill of worldwide communications!

- Pass the 35-question General Class exam.
- **All the Exam Questions with Answer Key**, for use July 1, 2011 to June 30, 2015.
- **Software** included featuring the **ARRL Exam Review** CD-ROM.
- Detailed explanations for all questions, including **FCC rules**.



Level
3

Achieve the highest level of Amateur Radio licensing!

The ARRL Extra Class License Manual—Ninth Edition

Complete the journey to the top and enjoy all the operating privileges that come with earning your Amateur Extra Class license.

- Pass the 50-question Extra Class exam.
- **All the Exam Questions with Answer Key**, for use through June 30, 2012.
- **Software** included featuring the **ARRL Exam Review** CD-ROM.
- Detailed explanations for all questions, including **FCC rules**.

Book and CD-ROM Only \$29.95 each

See page 8 and 9 for details

Quick order: www.arrl.org/shop

Call Toll free 1-888-277-5289 (US) or visit your local ARRL dealer