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*Respond to the call of ham radio
Despite its old-school reputation,*

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

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

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communications until regular systems like cell phones and the internet are restored. Additionally, it's enjoyable for good, old-fashioned tech geek reasons—fiddling with circuits and bouncing signals off the

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ionosphere just happens to give a lot of us a buzz! If one or more of these benefits is of interest to you, then good news: the new edition of Ham Radio For Dummies covers them all! In his signature friendly style, longtime

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*ham Ward Silver (Call Sign
NØAX)—contributing editor with
the American Radio Relay
League—patches you in on
everything from getting the right
equipment and building your
station (it doesn't have to be*

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expensive) to the intricacies of Morse code and Ohm's law. In addition, he coaches you on how to prepare for the FCC-mandated licensing exam and tunes you up for ultimate glory in the ham radio hall of fame as a Radiosport

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competitor! With this book, you'll learn to: Set up and organize your station Communicate with people around the world Prep for and pass the FCC exam Tune into the latest tech, such as digital mode operating Whether

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you're looking to join a public service club or want the latest tips on the cutting edge of ham technology, this is the perfect reference for newbies and experts alike—and will keep you happily hamming it up for years!

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

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

*Newnes Radio and RF
Engineering Pocket Book
Projects and Advice for Limited-*

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Of The Best
space Stations

*A Radio Amateur's Guide to
Antenna Matching*

*The A.R.R.L. Antenna Book
Understanding Practical*

Antennas and Design

Vertical antennas are

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***everywhere--on cell phones,
broadcast towers and
portable radios. You'll also
see them on the roofs, towers
and vehicles from Altoona to
Australia. And for good
reason! Here are some top-
notch performers from ARRL***

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***publications, brought
together in one book. Vertical
antenna theory and modeling,
VHF and UHF, HF, directional
arrays, radials and ground
systems, and more.***

***Your how-to guide to become
a ham Ham radio, or amateur***

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radio, is a way to talk with people around the world in real-time, or to send email without any sort of internet connection. It provides a way to keep in touch with friends and family, whether they are across town or across the

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country. It is also a very important emergency communication system. When cell phones, landlines, the internet, and other systems are down or overloaded, Amateur Radio still gets the message through. Radio

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amateurs, often called "hams," enjoy radio technology as a hobby, but are often called upon to provide vital service when regular communications systems fail. Ham Radio For Dummies is your guide to

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everything there is to know about ham radio. Plus, this updated edition provides new and additional information on digital mode operating, as well as use of amateur radio in student science and new operating events. • Set up

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***your radio station • Design
your ham shack • Provide
support in emergencies and
communicate with other hams
• Study for the licensing exam
and choose your call sign If
you're looking to join a
college radio club or just want***

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to learn the latest tips and tricks, this book is a helpful reference guide to beginners, or those who have been "hams" for years.

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

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ARRL On4un's Low Band

DXing

**The Best QRP Projects from
QST and the ARRL Handbook**

QRP Classics

The ARRL Antenna Book

The ultimate reference for amateur
radio antennas, transmission lines

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and propagation. Extensively revised, readers will find the latest antenna theory and a wealth of practical, how-to construction projects. CD-ROM included with the complete, fully-searchable text.

This book is intended for the reader who wishes to gain a solid

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understanding of Phase Locked Loop architectures and their applications. It provides a unique balance between both theoretical perspectives and practical design trade-offs. Engineers faced with real world design problems will find this book to be a valuable reference providing

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example implementations, the underlying equations that describe synthesizer behavior, and measured results that will improve confidence that the equations are a reliable predictor of system behavior. New material in the Fourth Edition includes partially integrated loop

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filter implementations, voltage
controlled oscillators, and
modulation using the PLL.

Software-Defined Radio for
Engineers

The ARRL Operating Manual

The Radio Amateur's Hand Book

Ham Radio For Dummies

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ARRL's Small Antennas for Small Spaces

This handbook has everything you need to design your own complete antenna system. This 23rd edition describes hundreds

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of antenna designs - wire,
vertical, portable and
mobile, and new high-
performance VHF/UHF Yagi
designs

Preface; Propagation of
radio waves; The decibel

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scale; Transmission lines;
Antennas; Resonant
circuits; Oscillators;
Piezo-electric devices;
Bandwidth requirements and
modulation; Frequency
planning; Radio equipment;

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Microwave communication;
Information privacy and
encryption; Multiplexing;
Speech digitization and
synthesis; VHF and UHF
mobile communication;
Signalling; Mobile radio

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systems; Base station site
management;
Instrumentation;
Batteries; Satellite
communications; Connectors
and interfaces;
Broadcasting;

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Abbreviations and symbols;
Miscellaneous data; Index.
Magic Band Antennas for
Ham Radio
Going Home
The Analytical Foundations
of Loop Antennas and Nano-

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Scaled Rings

The Radio Amateurs'

Journal

CQ

As wireless devices and systems
get both smaller and more
ubiquitous, the demand for

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effective but small antennas is rapidly increasing. Small Antenna Design describes the theory behind effective small antenna design and give design techniques and examples for small antennas for different

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operating frequencies. Design techniques are given for the entire radio spectrum, from a very hundred kilohertz to the gigahertz range. Unlike other antenna books which are heavily mathematical and

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theoretical, Douglas Miron keeps mathematics to the absolute minimum required to explain design techniques. Ground planes, essential for operation of many antenna designs, are extensively

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discussed. Author's extensive experience as a practicing antenna design engineer gives book a strong "hands-on" emphasis Covers antenna design techniques from very low frequency (below 300 kHz)

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to microwave (above 1 GHz)
ranges Special attention is given
to antenna design for
mobile/portable applications
such as cell phones, WiFi, etc
Stutzman's 3rd edition of
Antenna Theory and Design

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provides a more pedagogical approach with a greater emphasis on computational methods. New features include additional modern material to make the text more exciting and relevant to practicing engineers;

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new chapters on systems, low-profile elements and base station antennas; organizational changes to improve understanding; more details to selected important topics such as microstrip antennas and

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arrays; and expanded
measurements topic.

Ham Radio Magazine

The ARRL Handbook for the
Radio Amateur

Antenna Towers for Radio
Amateurs

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Basic Antennas

ARRL's VHF Digital Handbook

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

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

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using SDR for real-world testing and experimentation. This book explores advanced wireless communication techniques such as OFDM, LTE, WLA, and hardware targeting. Readers will gain an understanding of the core

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concepts behind wireless hardware, such as the radio frequency front-end, analog-to-digital and digital-to-analog converters, as well as various processing technologies. Moreover, this volume includes chapters on

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timing estimation, matched
filtering, frame
synchronization message
decoding, and source coding.
The orthogonal frequency
division multiplexing is
explained and details about
HDL code generation and

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deployment are provided. The book concludes with coverage of the WLAN toolbox with OFDM beacon reception and the LTE toolbox with downlink reception. Multiple case studies are provided throughout the book. Both

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MATLAB and Simulink source code are included to assist readers with their projects in the field.

So many wire antenna designs have proven to be first class performers! Here are two volumes devoted to wire

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antennas, from the simple to the complex. Includes articles on dipoles, loops, rhombics, wire beams and receive antennas--and some time-proven classics! An ideal book for Field Day planners or the next wire

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antenna project at your home station.

Antenna Theory and Design

73 Amateur Radio Today

A Guide for Design,

Installation and

Construction

Practical Antenna Handbook

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5/e

ARRL's Vertical Antenna
Classics

Book 1 of The Survivalist Series If
society collapsed, could you survive?
When Morgan Carter ' s car breaks
down 250 miles from his home, he

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figures his weekend plans are ruined. But things are about to get much, much worse: the country ' s power grid has collapsed. There is no electricity, no running water, no Internet, and no way to know when normalcy will be restored—if it ever

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will be. An avid survivalist, Morgan takes to the road with his prepper pack on his back. During the grueling trek from Tallahassee to his home in Lake County, chaos threatens his every step but Morgan is hell-bent on getting home to his

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wife and daughters—and he ' ll do whatever it takes to make that happen. Fans of James Wesley Rawles, William R. Forstchen's One Second After, and The End by G. Michael Hopf will revel in A. American's apocalyptic tale.

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THE DEFINITIVE ANTENNA
REFERENCE--FULLY REVISED
AND EXPANDED! Design and
build your own antennas with the
help of this unique guide. Updated
and revised to provide clear answers
to questions frequently asked by

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hobbyists and electronics
technicians, Practical Antenna
Handbook, Fifth Edition blends
theoretical concepts with hands-on
experience--requiring only high
school mathematics Reorganized to
flow logically from broad physical

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principles to specific antenna design and construction techniques, the book begins by covering the fundamentals. Then the half-wave dipole is discussed both as an excellent antenna in its own right and as a conceptual tool for

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

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performance. Other tools, such as antenna modeling software and network analyzer add-ons for PCs and Macs, are addressed, and concluding chapters offer fresh insights into support structures and installation techniques. **NEW**

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TOPICS COVERED INCLUDE:

Characteristics of all-driven and
parasitic arrays Beverages and small
MF/HF receiving loops Top-loaded
shunt-fed towers and other verticals
Theory and design of Yagi beams
Effect of real ground on propagation

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and antenna patterns, impedance,
and efficiency Lightning protection
and four kinds of ground systems
Zoning and restrictive covenants
COVERS A WIDE VARIETY OF
ANTENNAS: Dipoles and inverted-
Vs Quads, delta, and NVIS loops

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Wire arrays (bobtail curtain, half-square, rhombic) Verticals and shunt-fed towers Rotatable Yagi beams MF / HF receiving antennas (flag, pennant, K9AY, Beverage) Mobile and portable antennas VHF / UHF / microwave antennas

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And many more GO TO WWW.MHPROFESSIONAL.COM/CARR5 FOR: * Tables of worldwide geographic coordinates and antenna dimensions vs. frequency * Supplier updates * Author's blog * Additional photographs and schematics * Links

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to tutorials and specialized
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A Novel

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Tuners

Stealth Antennas

PII Performance, Simulation and

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Design

Small Antenna Design

This book develops the analytical theory of perfectly conducting and lossy metal, circular, round-wire loop antennas and nano-scaled rings from the radio frequency (RF)

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regime through infrared and the optical region. It does so from an antenna theory perspective. It is the first time that all of the historical material found in the literature has appeared in one place. It includes, particularly, material that has

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appeared in the literature only in the last decade and some new material that has not yet been published. The book derives the input impedance, resonances and anti-resonances, the RLC circuit model representation, and radiation patterns not only of

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closed loops and rings, but also of loops and rings loaded randomly and multiply with resistive and reactive impedances. Every derivation is compared with simulations run in Microwave Studio (MWS). It looks carefully at the physical response of

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loop antennas and nano-rings coupled to a source at one point in the periphery and at such rings illuminated by a plane wave arriving from every different direction with the E-field in all polarizations. The book ends with a brief look at

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polygonal loops, two dimensional arrays of nano-rings, and Yagi-Uda arrays.

Joe Carr has provided radio amateurs and short-wave listeners with the definitive design guide for sending and receiving radio signals

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with Antenna Toolkit 2nd edition. Together with the powerful suite of CD software, the reader will have a complete solution for constructing or using an antenna - bar the actual hardware! The software provides a simple Windows-based aid to

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carrying out the design calculations at the heart of successful antenna design. All the user needs to do is select the antenna type and set the frequency - a much more fun and less error prone method than using a conventional calculator to solve

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formulae. The new edition has been revised to include further cases of propagation, additional antennas and also two new chapters - Small Loop Antennas (a topic of considerable interest, which has been the subject of much recent debate in

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the amateur radio press); and Yagi Beam Antennas (widely used at HF and VHF). The CD software has also been updated. Joe Carr's expertise in the area of antenna design is legendary. Antenna designers, whether hobbyist or technician, can

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be assured they need look no further than Antenna Toolkit for the complete guide to understanding the practicalities of using and designing antennas today. A complete solution for antenna design in one package. Includes free CD-ROM with state of

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the art software for all design calculations. The definitive guide to antenna design for radio amateurs and short-wave listeners.

Receiving Antennas for the Radio Amateur

Antenna Toolkit

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The ARRL Antenna Compendium
For Radio Communications
ARRL's Low Power Communication