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

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*this unique
guide. Updated
and revised to
provide clear
answers to
questions
frequently asked
by hobbyists and
electronics
technicians,
Practical
Antenna
Handbook, Fifth
Edition blends*

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*theoretical
concepts with
hands-on experie
nce--requiring
only high school
mathematics
Reorganized to
flow logically
from broad
physical
principles to
specific antenna
design and
construction*

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techniques, the book begins by covering the fundamentals. Then the half-wave dipole is discussed both as an excellent antenna in its own right and as a conceptual tool for predicting the performance of

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*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*

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installation

techniques. NEW

TOPICS COVERED

INCLUDE:

Characteristics

of all-driven

and parasitic

arrays Beverages

and small MF/HF

receiving loops

Top-loaded shunt-

fed towers and

other verticals

Theory and

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*design of Yagi
beams Effect of
real ground on
propagation and
antenna
patterns,
impedance, and
efficiency
Lightning
protection and
four kinds of
ground systems
Zoning and
restrictive*

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covenants **COVERS**

A WIDE VARIETY

OF ANTENNAS:

Dipoles and

inverted-Vs

Quads, delta,

and NVIS loops

Wire arrays

(bobtail

curtain, half-

square, rhombic)

Verticals and

shunt-fed towers

Rotatable Yagi

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beams MF/HF
receiving
antennas (flag,
pennant, K9AY,
Beverage) Mobile
and portable
antennas VHF/UHF
/microwave
antennas And
many more GO TO
WWW.MHPROFESSION
AL.COM/CARR5
FOR: * Tables of
worldwide

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*geographic
coordinates and
antenna
dimensions vs.
frequency *
Supplier updates
* Author's blog
* Additional
photographs and
schematics *
Links to
tutorials and
specialized
calculators*

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*The ARRL
Operating Manual
For Radio
Amateurs
Respond to the
call of ham
radio Despite
its old-school
reputation,
amateur radio is
on the rise, and
the airwaves are
busier than
ever. That's no*

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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 world—and even beyond with its ability to connect with the

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*International
Space Station!
Hams are also
good in a
crisis, keeping
communications
alive and
crackling during
extreme weather
events and loss
of
communications
until regular
systems like*

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*cell phones and
the internet are
restored.*

*Additionally,
it's enjoyable
for good, old-
fashioned tech
geek
reasons—fiddling
with circuits
and bouncing
signals off the
ionosphere just
happens to give*

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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 ham
Ward Silver

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(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 expensive) to*

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*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*

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

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digital mode

operating

*Whether you're
looking to join
a public service
club or want the
latest tips on
the cutting edge
of ham*

*technology, this
is the perfect
reference for
newbies and
experts*

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*alike—and will
keep you happily
hamming it up
for years!*

FCC Record

Solid State

Design for the

Radio Amateur

Radio Theory

Handbook for

Amateur

Operators

NAB Engineering

Handbook

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*Getting Started
in Electronics*

This book is
intended for the
reader who
wishes to gain a
solid
understanding
of Phase Locked
Loop
architectures
and their

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applications. It provides a unique balance between both theoretical perspectives and practical design trade-offs. Engineers faced with real world design problems will

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find this book to
be a valuable
reference
providing
example implem
entations, the
underlying
equations that
describe
synthesizer
behavior, and
measured

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results that will
improve
confidence that
the equations
are a reliable
predictor of
system
behavior. New
material in the
Fourth Edition
includes
partially

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integrated loop
filter implement
ations, voltage
controlled
oscillators, and
modulation
using the PLL.
Step-by-step
guide that will
get you started
in the
fascinating

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world of HF
digital
technology.

Written in an
easy to
understand,
conversational
style, this book
will show you
how to set up
and operate
your own HF

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digital. The text includes instructions for configuring software programs for popular modes such as RTTY, PSK31 and JT65. You will also learn about other digital

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

Your how-to
guide to become
a ham Ham
radio, or
amateur radio,
is a way to talk

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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

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they are across town or across the country. It is also a very important emergency communication system. When cell phones, landlines, the internet, and other systems

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are down or overloaded, Amateur Radio still gets the message through. Radio amateurs, often called "hams," enjoy radio technology as a hobby, but are often called

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upon to provide
vital service
when regular
communications
systems fail.
Ham Radio For
Dummies is
your guide to
everything there
is to know about
ham radio. Plus,
this updated

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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

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call sign If
you're looking
to join a college
radio club or
just want to
learn the latest
tips and tricks,
this book is a
helpful
reference guide
to beginners, or
those who have

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been "hams" for
years.

Ham Radio For
Dummies

The A.R.R.L.

Antenna Book

RF Exposure
and You

Hints & Kinks

for the Radio

Amateur

The Ultimate

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**Prepper's
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Electronics explained in one volume, using both theoretical and practical applications. Mike Tooley provides all the information required to get to grips with the fundamentals of

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electronics,
detailing the
underpinning
knowledge
necessary to
appreciate the
operation of a wide
range of electronic
circuits, including
amplifiers, logic
circuits, power
supplies and
oscillators. The 5th
edition includes an

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additional chapter showing how a wide range of useful electronic applications can be developed in conjunction with the increasingly popular Arduino microcontroller, as well as a new section on batteries for use in electronic

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reference text for all study levels, and its broad coverage is combined with practical case studies based in real-world engineering contexts. In addition, each chapter includes a practical investigation

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models and templates that will enable virtual simulation of circuits in the book. These are accompanied by online self-test multiple choice questions for each chapter with automatic marking, to enable students to continually

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monitor their own progress and understanding. A bank of online questions for lecturers to set as assignments is also available.

Take the initiative and be ready to survive! Could you survive the end of the world as we know it? The

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Ultimate Prepper's Survival Guide will set you on the path to learning all the skills you will need to survive full societal collapse. We live in precarious times, and sensible people all around the world are recognizing that preparedness could

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mean the
difference between
life and death.
Author John
Wesley,
Rawles—one of the
world's leading
survivalist
experts—explains
how to survive in
the short term as
society begins to
collapse, and how
to thrive in the long

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term. Practical, easy-to-follow instructions are included to instruct you on the preparations you can make today, as well as advice on the mental and emotional resilience required to help you not just cope but prosper in the new world.

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A practical book written for engineers who design and use antennas. The author has many years of hands on experience designing antennas that were used in such applications as the Venus and Mars missions of NASA. The book

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covers all
important topics of
modern antenna
design for
communications
Numerical methods
will be included but
only as much as
are needed for
practical
applications
A Comprehensive
Compilation of
Decisions, Reports,

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Public Notices, and
Other Documents
of the Federal
Communications
Commission of the
United States
Ham and
Shortwave Radio
for the Electronics
Hobbyist
The Radio
Amateur's
Handbook
Ham Radio License

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The ARRL Extra
Class License
Manual

Do you want to explore all that your radio can do? Enjoy doing things yourself instead of buying pre-made solutions? Like to tinker and disassemble things? Then this is the book for you! You won't find

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instructions on how to turn your radio on, or do simple programming from the keypad. You will, however, find out how to use some of the more advanced features the radio can do and how to program those advanced features using the freely available CHIRP

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programming
software, the
manufacturer's
programming
software, and RT
Systems
programming
software. This book
also covers how to
completely
disassemble your
radio, and how to fix
some shortcomings
while you are in

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there. Want to fix that
squelch that doesn't
seem to work? Check!
How about the poor
transmit audio?
Check! Want to build
your own cables for
programming, APRS,
and repeater
operation? Check,
check, and check!
When you are done
with the basics and
want more, this is the

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Amateur Radio

PLL Performance,
Simulation and
Design

Practical Antenna
Handbook 5/e

World radio TV
handbook

The Amateur Radio
Public Service
Handbook

Pushing Your Radio
Further

Meet the FCC RF

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**exposure regulations!
It's not complicated!
Learn how to operate
your station safely and
legally using simple
step-by-step ARRL
worksheets and tables.
To an outsider, the
world of ham radio is
one of basement
transmitters, clunky
microphones, Morse
code, and crackly,
possibly clandestine,**

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worldwide

communications, a world both mysterious and geeky. But the real story is a lot more interesting: indeed, there are more than two million operators worldwide, including people like Walter Cronkite and Priscilla Presley. Gandhi had a ham radio, as do Marlon Brando and

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Juan Carlos, king of Spain. Hello World takes us on a seventy-year odyssey through the world of ham radio. From 1927 until his death in 2001, operator Jerry Powell transmitted radio signals from his bedroom in Hackensack, New Jersey, touring the worlds most remote

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locations and communicating with people from Greenland to occupied Japan. Once he made contact with a fellow ham operator, he exchanged postcards known as QSLs cards with them. For seven decades, Powell collected hundreds of these cards, documenting his

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**fascinating career in
amateur radio and
providing a dazzling
graphic inventory of
people and places far
flung. This book is
both an introduction
to the fascinating
world of ham and a
visual feast for anyone
interested in the
universal language of
graphic design.**

The NAB Engineering

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Handbook is the definitive resource for broadcast engineers. It provides in-depth information about each aspect of the broadcast chain from audio and video contribution through an entire broadcast facility all the way to the antenna. New topics include Ultra High Definition

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**Television, Internet
Radio Interfacing and
Streaming, ATSC 3.0,
Digital Audio
Compression
Techniques, Digital
Television Audio
Loudness
Management, and
Video Format and
Standards Conversion.
Important updates
have been made to
incumbent topics such**

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**as AM, Shortwave, FM
and Television
Transmitting Systems,
Studio Lighting,
Cameras, and
Principles of
Acoustics. The big-
picture, comprehensive
nature of the NAB
Engineering
Handbook will appeal
to all broadcast
engineers—everyone
from broadcast chief**

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engineers, who need expanded knowledge of all the specialized areas they encounter in the field, to technologists in specialized fields like IT and RF who are interested in learning about unfamiliar topics. Chapters are written to be accessible and easy to understand by all levels of

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engineers and technicians. A wide range of related topics that engineers and technical managers need to understand are covered, including broadcast documentation, FCC practices, technical standards, security, safety, disaster planning, facility planning, project

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**management, and
engineering
management.**

**The ARRL Operating
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Amateurs**

**Radiotelegraph &
Radiotelephone Codes,
Prowords and
Abbreviations**

**The ARRL Ham Radio
License Manual
Electronic Circuits**

Hello World: A Life in

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Ham Radio

Introduces ham
radio operating,
discussing
repeaters,
getting the
message through,
and the FCC.

The NAB
Engineering
Handbook
provides
detailed
information on

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virtually every
aspect of the
broadcast chain,
from news
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program
production and
postproduction
through master
control and
distribution
links to
transmission,
antennas, RF

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propagation,
cable and
satellite. Hot
topics covered
include HD
Radio, HDTV, 2
GHz broadcast
auxiliary
services, EAS,
workflow,
metadata,
digital asset
management,
advanced video

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and audio
compression,
audio and video
over IP, and
Internet
broadcasting. A
wide range of
related topics
that engineers
and managers
need to
understand are
also covered,
including

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broadcast
administration,
FCC practices,
technical
standards,
security,
safety, disaster
planning,
facility
planning,
project
management, and
engineering
management.

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Basic principles and the latest technologies and issues are all addressed by respected professionals with first-hand experience in the broadcast industry and manufacturing. This edition has been fully

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provides the
single most
comprehensive
and accessible
resource
available for
engineers and
others working

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in production,
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networks, local
stations,
equipment
manufacturing or
any of the
associated areas
of radio and
television.
Get up and
running as a ham
radio
operator—or just

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shortwave bands!
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Shortwave Radio
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Electronics
Hobbyist shows
you, step by
step, how to set
up and operate
your own ham
radio station.
It's also
perfect for

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those interested
in shortwave
listening,
without getting
a ham radio
license. This
practical guide
covers
communications
modes, assigned
frequency ranges
in the United
States, details
on fixed,

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mobile, and portable ham stations, antennas, and much more. Ham radio will work even when the Internet and other utilities fail. So get on the air and keep the lines of communication open in any

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waves and how
they travel
Shortwave and
allwave
listening
Communications
modes for ham
radio operators,
including using
the Internet as

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a supplement Ham
radio licenses
and assigned
frequency ranges
(bands) used in
the United
States Wave-
propagation
characteristics
and tips on the
bands best
suited for use
at different
times of the

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day, year, and
sunspot cycle
Selecting and
installing
equipment for
fixed ham radio
stations Setting
up mobile and
portable ham
radio stations
Antennas and
transmission
lines for
various

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station types
How to operate
your station
using popular
voice and
digital modes
Schematic
symbols and Q
signals for ham
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All You Need to
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Amateur Radio

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Operator.
Technician].
Level 1

Life and Death:
Twilight
Reimagined
Advanced Baofeng
UV-5R
The ARRL
Operating Manual
For fans of the
worldwide
phenomenon

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Twilight comes a bold reimagining of Stephenie Meyer's novel, telling the classic love story but in a world where the characters' genders are reversed. There are two sides to every story . . . You know Bella

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and Edward, now
get to know Beau
and Edythe. When
Beaufort Swan
moves to the
gloomy town of
Forks and meets
the mysterious,
alluring Edythe
Cullen, his life
takes a
thrilling and
terrifying turn.
With her

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porcelain skin,
golden eyes,
mesmerizing
voice, and
supernatural
gifts, Edythe is
both
irresistible and
enigmatic. What
Beau doesn't
realize is the
closer he gets
to her, the more
he is putting

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himself and those around him at risk. And, it might be too late to turn back . . . With a foreword and afterword by Stephenie Meyer, this compelling reimagining of the iconic love story is a must-read for

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Twilight fans everywhere. The series has been praised as New York Times and USA Today bestsellers, a Time magazine Best Young Adult Book of All Time, an NPR Best Ever Teen Novel, and a New York Times

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Editor's Choice.
Enrapturing
millions of
readers since
its first
publication,
Twilight has
become a modern
classic, leaving
readers yearning
for more. It's
here! #1
bestselling
author Stephenie

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Meyer makes a triumphant return to the world of Twilight with the highly anticipated companion, *Midnight Sun*: the iconic love story of Bella and Edward told from the vampire's point

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of view. "People do not want to just read Meyer's books; they want to climb inside them and live there." -- Time
"A literary phenomenon." -- The New York Times
Electricity --
Electronic

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components --

Semiconductors

-- Photonic

semiconductors

-- Integrated

circuits --

Digital

integrated

circuits --

Linear

integrated

circuits --

Circuit assembly

tips -- 100

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electronic
circuits.

The most popular
introduction to
amateur radio,
this guide
offers a unique
mix of
technology,
public service,
convenience, and
fun. All levels
of ham radio
operators can

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brush up on
their skills and
use the book to
study for their
first license
exam with the
latest questions
pool with answer
key.

National
Association of
Broadcasters
Engineering
Handbook

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The ARRL
Handbook for
Radio
Communications
FCC Amateur
Radio License
Preparation
Basic Antennas
The ARRL General
Class License
Manual

**Amateur radio has
consistently been the
most reliable means**

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of communications when other systems have failed. Hams work closely with disaster relief agency officials from FEMA, the American Red Cross, the Salvation Army, and other response organizations to offer wireless communications aid. From wildfires and

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earthquakes to marathons and road races, when getting the message through is critical, ham radio works. This book is for all hams who volunteer their time and skill to serve their communities. It provides knowledge needed for communicating quickly and effectively

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during disasters,
emergencies, and
community events, as
well as an opportunity
for learning more
about the Amateur
Radio Service and its
unique role in
supporting the public.
The Beginner's Guide
to PSK31, RTTY and
More!

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Class License Manual

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for Ham Radio

Get on the Air with HF
Digital

The ARRL Operating
Manual for Radio
Amateurs

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Design