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The definitive reference on electromagnetic shielding materials, configurations, approaches, and analyses This reference provides a

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comprehensive survey of options for the reduction of the electromagnetic field levels in prescribed areas. After an introduction and an overview of available materials, it discusses figures of merit for shielding

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configurations, the shielding effectiveness of stratified media, numerical methods for shielding analyses, apertures in planar metal screens, enclosures, and cable shielding. Up to date and comprehensive, Electromagnetic

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Shielding: Explores new and innovative techniques in electromagnetic shielding
Presents a critical approach to electromagnetic shielding that highlights the limits of formulations based on plane-

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wave sources Analyzes aspects not normally considered in electromagnetic shielding, such as the effects of the content of the shielding enclosures Includes references at the end of each chapter to facilitate further

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study The last three chapters discuss frequency-selective shielding, shielding design procedures, and uncommon ways of shielding—areas ripe for further research. This is an authoritative, hands-on resource

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for practicing telecommunications and electrical engineers, as well as researchers in industry and academia who are involved in the design and analysis of electromagnetic shielding

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structures.

Your how-to guide to become a ham Ham radio, or amateur radio, is a way to talk with people around the world in real-time, or to send email without any sort of internet connection. It provides a

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way to keep in touch with friends and family, whether they are across town or across the country. It is also a very important emergency communication system. When cell phones, landlines, the

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

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

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digital mode operating, as well as use of amateur radio in student science and new operating events. • Set up your radio station • Design your ham shack • Provide support in emergencies and communicate

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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 to learn the latest tips and tricks, this book is a helpful reference guide to beginners, or those who

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have been "hams" for years.
CubeSat Antenna Design
The Radio Amateurs' Journal

The ARRL Operating Manual
Applied Science & Technology
Index

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*Assembling a VHF/UHF
amateur radio station --
VHF/UHF propagation --
Operating techniques --
Transmitters, power
amplifiers & EMC --
Antennas -- Designs for*

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*VHF and UHF transverters
-- Power supplies --
Station control -- Test
equipment, etc.
This is the first book
that comprehensively
addresses the issues*

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*relating to the effects of
radio frequency (RF)
signals and the
environment of electrical
and electronic systems. It
covers testing methods as
well as methods to analyze*

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radio frequency. The generation of high-powered electromagnetic (HPEM) environments, including moderate band damped sinusoidal radiators and hyperband radiating

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systems is explored. HPEM effects on component, circuit, sub-system electronics, as well as system level drawing are discussed. The effects of HPEM on experimental

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techniques and the standards which can be used to control tests are described. The validity of analytical techniques and computational modeling in a HPEM effects context is

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*also discussed. Insight on
HPEM effects experimental
techniques and the
standards which can be
used to control tests is
provided, and the validity
of analytical techniques*

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*and computational modeling
in a HPEM effects context
is discussed. This book
dispels myths, clarifies
good experimental practice
and ultimately draws
conclusions on the HPEM*

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interaction with electronics. Readers will learn to consider the importance of HPEM phenomena as a threat to modern electronic based technologies which

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*underpin society and to
therefore be pre-emptive
in the consideration of
HPEM resilience.*

*Proceedings of the 42nd
International
Instrumentation Symposium*

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*The ARRL Handbook for
Radio Amateurs, 1998
International Aerospace
Abstracts
Pandex Current Index to
Scientific and Technical
Literature*

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QST

***A guide to understanding
and using amateur-radio,
weather, and tv-broadcast
satellites.***

***Presents an overview of
CubeSat antennas designed***

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***at the Jet Propulsion
Laboratory (JPL)
CubeSats—nanosatellites
built to standard
dimensions of 10cm x 10
cm x cm—are making space-
based Earth science***

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***observation and
interplanetary space
science affordable,
accessible, and rapidly
deployable for institutions
such as universities and
smaller space agencies***

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***around the world. CubeSat
Antenna Design is an up-to-
date overview of CubeSat
antennas designed at
NASA's Jet Propulsion
Laboratory (JPL), covering
the systems engineering***

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***knowledge required to
design these antennas from
a radio frequency and
mechanical perspective.
This authoritative volume
features contributions by
leading experts in the field,***

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providing insights on mission-critical design requirements for state-of-the-art CubeSat antennas and discussing their development, capabilities, and applications. The text

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begins with a brief introduction to CubeSats, followed by a detailed survey of low-gain, medium-gain, and high-gain antennas. Subsequent chapters cover topics

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including the telecommunication subsystem of Mars Cube One (MarCO), the enabling technology of Radar in a CubeSat (RainCube), the development of a one-meter

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mesh reflector for telecommunication at X- and Ka-band for deep space missions, and the design of multiple metasurface antennas. Written to help antenna engineers to

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***enable new CubeSat NASA
missions, this volume:
Describes the selection of
high-gain CubeSat
antennas to address
specific mission
requirements and***

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***constraints for instruments
or telecommunication
Helps readers learn how to
develop antennas for future
CubeSat missions Provides
key information on the
effect of space environment***

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***on antennas to inform
design steps Covers patch
and patch array antennas,
deployable reflectarray
antennas, deployable mesh
reflector, inflatable
antennas, and metasurface***

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***antennas CubeSat Antenna
Design is an important
resource for
antenna/microwave
engineers, aerospace
systems engineers, and
advanced graduate and***

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***postdoctoral students
wanting to learn how to
design and fabricate their
own antennas to address
clear mission requirements.
Vhf / Uhf Handbook
CRB.. Physical sciences***

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***73 for Radio Amateurs
The Radio Amateur's
Handbook
The Satellite
Experimenter's Handbook***

New 3d edition -- If it's
about ham radio, it's in

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the Almanac. -- Updated annually, with new tables, facts and figures. -- For all amateur and professional ham radio enthusiasts. -- Unique publication -- no other

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book like it on the market. Anyone looking for information about ham radio will find it in the 1996 Amateur Radio Almanac. CQ's sourcebook is filled with over 500

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pages of facts, figures and information about world records, space, computers, geographical stats, radio history, regulations, and so much more. Includes ham radio

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clubs, useful tables, ham radio and the Internet, operating events, antennas and conventions. "In addition mto major baseball, ham radio has been a real paasion to me.

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The CQ Amateur Radio Almanac is one resource that will always be a prominent part of my ham shack". -- Joe Rudi, NK7U
"As a member of the VEC Question Pool committee,

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with over 1/3 of all amateur exams going through my office, I'm proud to say CQ's published a real winner with their Amateur Radio Almanac. No ham, new or

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experienced, should be without one". -- Fred Maia, President W5YI Group
CQThe Radio Amateurs' JournalMicrowave Update
2006The ARRL Handbook for the Radio AmateurAmateur

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RadioHam Radio MagazineHam
RadioThe ARRL Handbook for
Radio Communications1996
Amateur Radio Mail Order
Catalog & Resource
DirectoryThe ARRL
Operating Manual for Radio

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Amateurs American Radio
Relay League The ARRL
Antenna Book Amer Radio
Relay League
QEX.

The ARRL Antenna Book
Current Research in

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Britain

1996 Amateur Radio Mail
Order Catalog & Resource
Directory

The A.R.R.L. Antenna Book

**Includes a searchable index of
QST product reviews, a**

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**database on over 1000
equipment and parts
suppliers, and several other
programs**

**This book includes useful tips
and tricks for the
configuration and operation
of the amazing Icom IC-9700**

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VHF and UHF transceiver. Rather than duplicate the manuals which describe each button, function, and control, I have used a more functional approach. This is a "how to do it" book with easy to follow step by step instructions. The

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IC-9700 is a ground breaking amateur radio transceiver. It is the first full power, multi-mode, VHF/UHF amateur radio transceiver to be based on SDR technology. With this radio, Icom provides the perfect companion to the

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IC-7300. It is a transceiver for VHF and UHF DX operation, working satellites, EME, and repeater operation, supporting both traditional FM repeaters and D-Star digital. Many of the features included in the IC-9700 have

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never been available on VHF/UHF amateur radio transceivers before. All of these great features make the IC-9700 quite a complicated radio to configure and operate. The Radio Today guide to the Icom IC-9700 will

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**help you to get the most out
of this incredible transceiver.
73 Amateur Radio Today
High-Power Electromagnetic
Effects on Electronic Systems
Microwave Update 2006
Telecommunications
Regulation Handbook**

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Electromagnetic Shielding
*The ultimate reference for
amateur radio antennas,
transmission lines and
propagation. Extensively
revised, readers will find
the latest antenna theory*

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*and a wealth of practical,
how-to construction
projects. CD-ROM included
with the complete, fully-
searchable text.*

*Radio Network Planning and
Optimisation for UMTS,*

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Second Edition, is a comprehensive and fully updated introduction to WCDMA radio access technology used in UMTS, featuring new content on key developments. Written

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by leading experts at Nokia, the first edition quickly established itself as a best-selling and highly respected book on how to dimension, plan and optimise UMTS networks.

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This valuable text examines current and future radio network management issues and their impact on network performance as well as the relevant capacity and

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coverage enhancement methods. In addition to coverage of WCDMA radio access technology used in UMTS, and the planning and optimisation of such a system, the service

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***control and management
concept in WCDMA and GPRS
networks are also
introduced. This is an
excellent source of
information for those
considering future***

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cellular networks where Quality of Service (QoS) is of paramount importance. Key features of the Second Edition include: High-Speed Downlink Packet Access

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***(HSDPA) – physical layer,
dimensioning and radio
resource management
Quality of Service (QoS)
mechanisms in network for
service differentiation
Multiple Input – Multiple***

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***Output (MIMO) technology
Practical network
optimisation examples
Service optimisation for
UMTS and GPRS/EDGE
capacity optimisation The
'hot topic' of service***

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*control and management in
WCDMA and GPRS networks,
that has evolved since the
first edition Companion
website includes: Figures
Static radio network
simulator implemented in*

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MATLAB® This text will have instant appeal to wireless operators and network and terminal manufacturers. It will also be essential reading for undergraduate and

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***postgraduate students,
frequency regulation
bodies and all those
interested in radio
network planning and
optimisation, particularly
RF network systems***

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engineering professionals.

Amateur Radio

1996 Amateur Radio Almanac

Symposium Record

Radio Network Planning and

Optimisation for UMTS

Ham Radio

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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.

The Handbook for
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provides regulators with a

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reference source on the main telecommunication regulatory practices and procedures currently utilized around the world.

The VHF/UHF DX Book

Electronics World + Wireless
World

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CQ

The ARRL Handbook for Radio
Communications

Ham Radio Magazine

"The most complete book
about amateur radio on-the-
air operating ever

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published"--Cover
subtitle.

The ARRL Operating Manual
for Radio Amateurs

The ARRL Handbook for the
Radio Amateur

The Radio Today Guide to

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the Icom IC-9700
Ham Radio For Dummies
ARRL's VHF Digital
Handbook