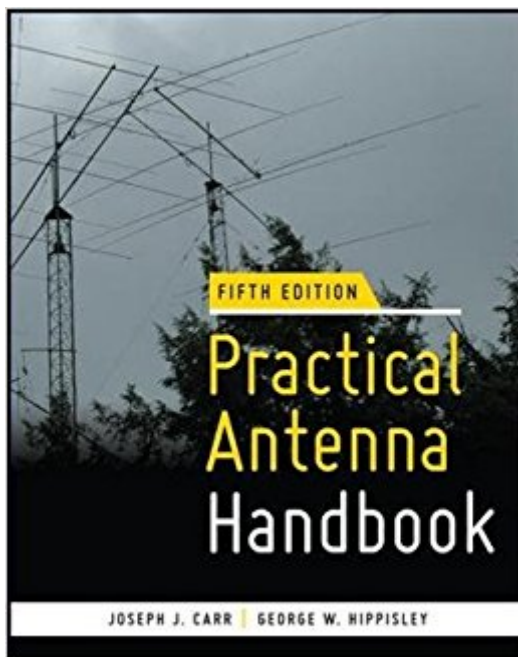


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# Practical Antenna Handbook 5/e



## Synopsis

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 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 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 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 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 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 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 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 And many more GO TO [WWW.MHPROFESSIONAL.COM/CARR5](http://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 to tutorials and specialized calculators

## Book Information

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## Customer Reviews

Joseph Carr was a military electronics technician and the author of several popular electronics books, including McGraw-Hill's *Secrets of RF Design, Third Edition* and *Old Time Radios! Restoration and Repair*. He wrote a monthly column for *Nuts & Volts* magazine. George W. (Bud) Hippisley, W2RU, earned his BSEE degree from MIT, and was formerly chief operating officer for a major supplier of electronics to the cable TV industry. A long-time active amateur radio operator who has won or ranked nationally in many competitive on-the-air operating events, he has given talks on the basics of antennas and ionospheric propagation to radio clubs and other groups for more than 35 years.

Carr's books were classics, but I had outgrown them. I have many antenna books from ARRL and RSGB, so I ordered this expecting this to be a bit elementary. When I flipped through it on arrival, it seems to confirm my expectations. But I kept it by the throne, and as I read various sections, I started to appreciate the book for several significant features. First the update reorganizes the material so the flow is from basic to advanced. Second, the writing is very good; this means that technical points are much easier to understand. Third, as I read through sections, it made me excited by new projects. I am now planning to create a simple dipole to listen to Jupiter on 19 Mhz - I never imagined it might be feasible to create a radio telescope so easily. I continue to find fascinating ideas, now look forward to my daily ablutions, which have become significant input sessions. Very highly recommended.

This is a book that I am happy to call a member of my collection of antenna books. The book first of all is *\*readable\** not being either a compendium of example antennas others have created that may or may not work, nor is it a book full of old antenna information the foundation for which might date back 80 years and be suspect. It is an up to date treatment of different types of antennas, some

theory justifying them, and is exquisitely well-illustrated. Included as well are sections on modern antenna modeling as well as modern means of troubleshooting antenna systems. The book's author is a renowned expert in amateur radio operating and antenna systems. He has always been willing to help others achieve a better understanding of their stations and operation. In short the author's background is perfect to write a Practical Antenna Handbook - someone who knows the theory, practices it avidly and uses his antenna system in frequent operation. I recommend this book to anyone with an interest in antennas, regardless of prior background.

Everything you need to know about any antenna, matching network or any other topic associated with antennas is directly located in the chapter you are reading. You do not have to search for anything...it is there! Filled with proven, workable antenna examples, it is a joy to read.

Enthusiastically written, it is extremely concise, and accurate on every topic imaginable. The actual examples presented in this book will make you want to try them all. Finally a reference manual on the "how to" and why the antenna you are planning to design will be incredible! It is the best Antenna Handbook ever!

Carr's Practical Antenna Handbook is a thick volume that tries - mostly successfully - to balance technical detail against practicality. I can follow the book without any issue, but do find it heavy going in a few places. I've found it mostly useful when looking for details and insight into one particular antenna type. While I find antennas interesting, like most amateur radio operators, aside from the introductory material and the coverage of dipoles, which everyone should read, the idea of reading the book in linear fashion cover-to-cover is daunting, besides unnecessary. This handbook is also a good alternative to the ARRL Antenna book at roughly half the price of the latter. The printed version is better quality than the ARRL book. I bought the Kindle version and am entirely happy with it (including the price, responding to one complaint).

I have a number of Joe Carr's books, including the previous edition of Practical Antenna Handbook. The current edition is the best antenna book, period. It far outshines the ARRL Antenna Book. Unlike the 4th edition, this newest edition does not have a CD/DVD with files and programs that relate to the text. That is not a big loss, as I never liked the ANTLERS software, anyway. EZ-NEC (available on the Web) does the same job and is easier to learn. If you are new to antenna design or are an old timer, this book will serve you well.

This is so much better than the ARRL Antenna Book (which this same author has also been involved with over the years). At half the price. Joseph Carr is very well known name in Amateur Radio, and greatly missed too. He is/was probably the best there is at taking difficult topics and parsing them down and making them accessible to the general reader, without dumbing it down to the point of uselessness. Everything in this book is useful, and as the title touts, Practical. This book starts with some basic concepts and gradually build them up until the reader is working with some very deep aspects of RF transmission and propagation. It is comprehensive without being overwhelming. I would also recommend any of Mr Carr's other books dealing with radio electronics.

Good book. Getting out of date. Enjoyed the brief sections about small loops for receiving.

Good Antenna Book

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