



# Practical Antenna Handbook 5/e

By Joseph Carr, George Hippisley

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**Practical Antenna Handbook 5/e** By Joseph Carr, George Hippisley

## **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

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\* 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

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## **Practical Antenna Handbook 5/e By Joseph Carr, George Hippisley Bibliography**

- Sales Rank: #267693 in eBooks
- Published on: 2011-10-31
- Released on: 2011-10-31
- Format: Kindle eBook
- Number of items: 1

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## **Editorial Review**

### About the Author

**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.

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