



## Practical Antenna Handbook 5/e

*Joseph Carr, George Hippisley*

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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 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

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