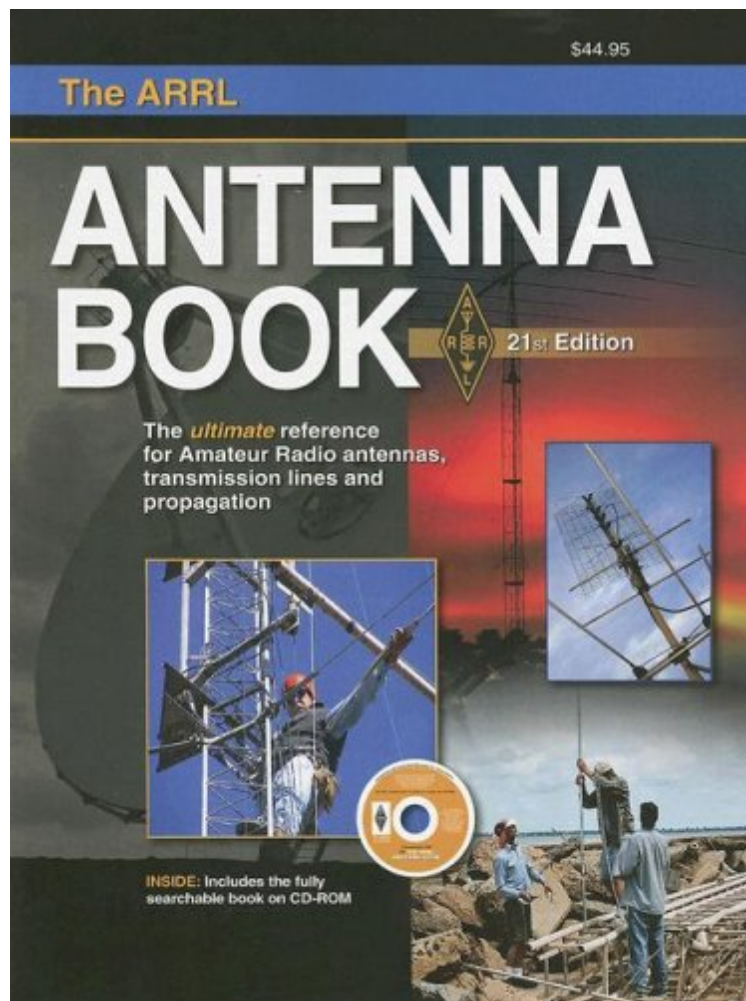


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The ARRL Antenna Book: The Ultimate Reference for Amateur Radio Antennas, Transmission Lines And Propagation (Arrl Antenna Book)

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American Radio Relay League : The ARRL Antenna Book: The Ultimate Reference for Amateur Radio Antennas, Transmission Lines And Propagation (Arrl Antenna Book) before purchasing it in order to gage whether or not it would be worth my time, and all praised The ARRL Antenna Book: The Ultimate Reference for Amateur Radio Antennas, Transmission Lines And Propagation (Arrl Antenna Book):

9 of 9 people found the following review helpful. Too Much Useless Material. Short on Basics. The Older Editions Are Better.By L. ScottThis book has a lot of information, but also many short-comings. I'll give one example. It has a

mere two paragraphs on end-fed antennas. Are you kidding me? No substantive discussion on feed line length other than to warn about using multiple quarter wavelength. How about the very worthwhile fact that a resonant half-wave end-fed horizontal antenna that has a quarter wavelength feed line (quarter wave x velocity factor of the feed line) gives you 50 ohms at the radio end of the feed line? That's a very useful bit of info which is not even mentioned. Inverted L is another popular antenna that should have more information, although it does get more than the end-fed. The dipole section is good, particularly the SWR and efficiency graphs. They should include this information for all the antennas, even if it comes from antenna software as opposed to actual field measurements. One other criticism is instead of giving more detailed information on basic antennas that most hams actually use, they devote many pages to impractical antennas like giant discone antennas and massive multi-element, multi-band quad beams. How many people have the money, time or room to build and install one of these things? IMHO, the best sources of information are the ARRL's series of antenna compendiums and W6SAI's antenna books. Yes, these end-up costing money to get them all, but this won't break most people's bank accounts. One of the best little information-packed books on useful antennas is one by W6SAI and W2LX entitled: "Simple, Low-Cost Wire Antennas for Radio Amateurs" <http://www..com/Simple-Low-Cost-Antennas-Radio-Amateurs/dp/08230870776> of 6 people found the following review helpful. Ultimate Practical Antenna Reference Book By Cary Champlin I am impressed! Safety is not the last chapter, it's the first chapter! It is a full 24 pages in length and includes topics such as: tower support safety, safety belt and climbing accessories, gin pole use, installing antenna on towers, tower climbing safety tips, lockout/tagout, installation of tower shields, electrical safety, NEC, grounding, lightning, AC power lines, feedline protection, rotator use, mobile antenna installation, transient protection, RF radiation/EM field safety, and safe RF exposure limits. Not a bad way to start a practical book on designing, installing, securing, and operating RF transmit/receive antennas. I have taken electrical engineering courses on antenna analysis and design. Good courses. Although I learned how to analyze antenna performance and model their patterns, I still didn't feel I could design a practical high-performance antenna system yet. That is where amateur radio and earlier editions of this 976-page practical design and construction antenna book came to the rescue. Looking back, I believe it also made a difference in my first five years as a young electrical engineer developing and testing side-looking airborne radars (SLAR) based on phased arrays. So, what makes this antenna book the one to own? Coverage: Extensive practical design and performance material on all the popular antenna systems and many unconventional antennas. For most antenna types, design topics include system variables (e.g., number of elements, spacing, matching network), performance vs. frequency, multi-band configurations, stacked arrays, real-world terrain effects, and alternate configurations. Throughout the book are numerous photos of hardware, diagrams, schematics, and performance plots. There are chapters on the design and construction of high-performance yagi antenna: 432 MHz (70 cm band) with 22-elements and 144 MHz (2 m) design supporting 10 to 19 elements. Circular polarized antenna design to establish links to LEO and elliptical orbit amateur satellites are covered. There are chapters on material selection for antennas, towers, and supports. There is an extensive chapter on atmospheric effects on radio wave propagation. There is even a short chapter on HF antenna systems for sailboats! Reference material: Nearly every chapter includes an extensive bibliography that includes papers from CQ, QST, Antenna Engineering Handbook, RF Design, Proceedings of the IEE, IEEE Transactions on Antennas and Propagation, and the Radio Handbook. At the end of Chapter 2, there is an extensive list of textbooks on antennas (including the ones from my college courses). PDF: The CD ROM that is included contains a fully searchable PDF of this book. Nice bonus feature. This is a first-class reference book on the design of RF antenna systems! CQ CQ CQ DE K7CRC K7CRC K7CRC K2 of 2 people found the following review helpful. A valuable book for my collection By Pwyll The ARRL Antenna Book is a practical introduction to antenna design. For a book this thick, it's strange to call it an introduction, but it is as it covers everything from safety, through antenna performance, to antenna design and modeling. While some examples are given along with construction projects, this book is mostly about designing your own antenna and include enough math and formulas to make one well versed in the subject. The included CD contains a searchable pdf of the book as well as many programs to help design and model antennas. Some of the programs are demo versions with limited capabilities, but are useful enough to get familiar with. For example EZNEC is the trial version, but there are specially coded files on the disk that allow you to use the full version for those files only. This book is a must have for any amateur involved in antenna design. After working through the material you will know enough about the design and performance of antennas to design your own, and have the knowledge to know what other books on the subject would be helpful to you.

All the information you need to design your own complete antenna system. Since the first edition in September 1939, radio amateurs and professional engineers have turned to The ARRL Antenna Book as THE source of current antenna theory and a wealth of practical how-to construction projects. Use this book to discover even the most basic antenna designs-- wire and loop antennas, verticals, and Yagis--and for advanced antenna theory and applications. Many of the antennas in this edition benefit directly from advances in sophisticated computer modeling. This 21st edition has been extensively revised to include information you can use to build highly optimized or specialized antennas. The book includes new content on Near Vertical Incidence Skywave (NVIS) techniques, phased arrays, S-parameters as used in

modern vector network analyzers (VNA), Beverage receiving antennas, mobile screwdriver antennas, ionospheric area-coverage maps, and much...much more. Fully searchable CD-ROM included! Bundled with this book is a CD-ROM containing The ARRL Antenna Book in its entirety, using the popular Adobe Reader software for Microsoft Windows and Macintosh systems. View, search and print from the entire text, including images, photographs, drawings...everything!