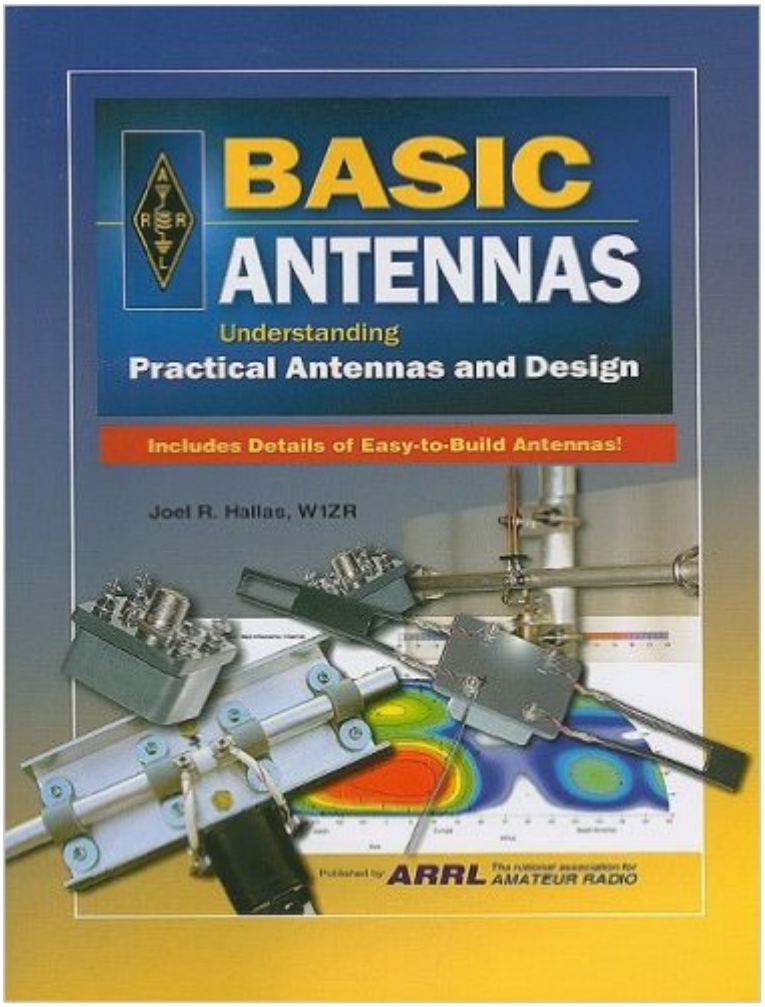
Basic Antennas



Synopsis

Understanding Practical Antennas and DesignsBasic Antennas is a comprehensive introduction to antennas--basic concepts, practical designs, and details of easy-to-build antennas. You ll learn how to make antennas that really work! This book will provide a foundation in antenna theory and design necessary for anyone undertaking more advanced topics such as those presented in The ARRL Antenna Book. Includes: Dipole Antennas, Antenna Impedance, Transmission Lines, Practical Two Element Arrays, Wideband and Multiband Antennas Reflector Antennas, Yagis for HF and VHF, Loop Antennas, Antennas for Microwave Applications, Vehicle Antennas, Antenna Measurements, Plus, an Introduction to Antenna Modeling...and much more!

Book Information

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Customer Reviews

This is a perfect book for those just getting started in antenna fabrication and design. Loaded with Figures.Written on an 8th grade reading level, it contains the basic 468/f for dipoles, how to match impeadance to many different types antennas, transmission line do’s and don’t’s, figuring heighth above ground, how to gamma match, computing SWR, using and figuring decibels on Windows Scientific Calculator... so much more.This book is easy enough to read that my 10yr old found the 462/f for large diameter elements and cut a ground plane for 10m from a piece of toprail from a chain link fence. We now run a beacon on 28.2565 on that antenna.If you can comprehend the Technician book, this book is on the same level.Also, it’s perfect for reference.

This was a good introduction to antennas. I'm not a total beginner, as I have a basic understanding of electromagnetism and related concepts. This did help quite a bit to understand relationships between antenna height above ground and radiation patterns, etc. The section on types of matches to use with yagi antyennas was especially useful.However, I felt the book should have been written a a stand-alone book, rather than relying upon (and to some extent, advertising) antenna design software.I read about half of the book, focusing on the basic concepts and later, designs that most closely apply to my planned applications. It left me feeling like I couldn't easily analyze antenna designs without purchasing the recommended software. So, 4 stars for teaching me quite a bit. But in order to get a full five stars, it should have been written to stand on it's own, omitting the chapter dedicated to the software. I just hate buying a book only to learn that I have to buy software in order to make full use of an entire chapter.Still I would definitely recommend this book to anyone wanting to understand the basic concepts.

While not an 'in depth' or advanced look at antennas, it more than covers the basics of how antennas work, covers designs of different antennas for different frequencies, and the math involved in antenna design. Especially useful for new amateur radio operators who are looking for alternatives to the over priced commercial antennas available. Found it very useful.

This is an excellent book for any ham and for any junior engineer beginning work in the antenna area. Mr. Hallas unifies the discussion of antennas by using ENZEC to simulate the various antenna types. It is not an antenna textbook that uses vector potentials etc. By combining physical insight in combination with the ENZEC simulations to verify the insight, the whole field is made comprehensible. This is also done in a readable and concise style. Finally, I would mention that Mr. Halas' years of experience show up in many comments in the book.

Oh boy where to begin... ARRL Basic? Antennas. Loved the book, I got out of it just what I wanted and that was the Formulas for making wire antennas and understanding Balanced and unbalanced antennas. Do I understand Impedance now, nope. But at least now I know what questions to ask other Hams that can help me. So as I learn more of my hobby I am sure this book will be of great help.

This is an interesting book, its written for the amateur who has little knowledge about electronics and electromagnetism but who wants to learn about the basic properties of antennas and the

differences between the different commercial HAM radio antennas. The explanations on basic concepts are somehow crude, relying on simple analogies and without explaining too much as to why or how a particular phenomenom happens. However for the amateur it provides a great repository of knowledge on the basic aspects of antennas and great instructions on how to build your own antennas.Antenna theory is very hard, one needs to learn several topics first like electromagnetic theory, electric circuits, transmission lines, wave propagation, etc.. thats without counting all the prerequisite math needed to understand all those topics, the "profesional" books devoted to the subject of antennas are very advanced, books like the ones written by Balanis or Kraus are examples of great comprehensive works which may take years for someone to fully absorb. This book published by the ARRL offers the amateur a hands on approach and general idea on how antennas work and how to build his own antennas, without all the math and physics required to fully understand them.Overall I would say this book was a joy to read, and provides great info for someone looking to get a grasp on how antennas work and build his own antennas as a hobby.

This book is on basic antenna designs. A must for beginner or intermediate radio enthusiasts. If you are thinking of shortwave or any radio listening as a hobby, this is a great starters instrucion book. If you don’t have a well planned antenna set up, no matter how good the electronics, you will get poor or no acceptable reception.

I’m not going to say that this book is either "good" or "bad." Rather, I’m going to tell you that the author did not explain things thoroughly enough for people who are new to antennas and electronics altogether. If you are already familiar with technical aspects of how radios and other electronics work (to a pretty good degree), you’ll probably be fine with the book. Otherwise, you’re going to struggle.The book simply does not go into enough detail to explain concepts like impedance thoroughly enough for total beginners. The only issue is that the title of this book is a bit misleading and would likely attract newbies.This is coming from a guy who is currently getting nearly 100% in my electrical and electronics class, has a background of about a year and a half of electrical study now, and wants to be an electrician.

Networks: Hardware, Antennas, and Propagation (Communications Engineering (Paperback)) Portable Wire Antennas Phased Array Antenna Handbook, Second Edition (Artech House Antennas and Propagation Library) Antennas and Wave Propagation Millimeter-Wave Antennas: Configurations and Applications (Signals and Communication Technology) RF Design Guide Systems, Circuits and Equations (Artech House Antennas and Propagation Library) Antennas and Propagation for Wireless Communication Systems: 2nd Edition HF Antenna Accessories (Amateur Radio HF Antennas Book 4) Small Antennas:Miniaturization Techniques & Applications Smart Antennas with MATLAB, Second Edition Improving TV Signal Reception: Mastering Antennas and Satellite Dishes Antennas Modern Small Antennas Antennas For All Applications Phased Array Antennas : Floquet Analysis, Synthesis, BFNs and Active Array Systems Third-Generation Systems and Intelligent Wireless Networking: Smart Antennas and Adaptive Modulation