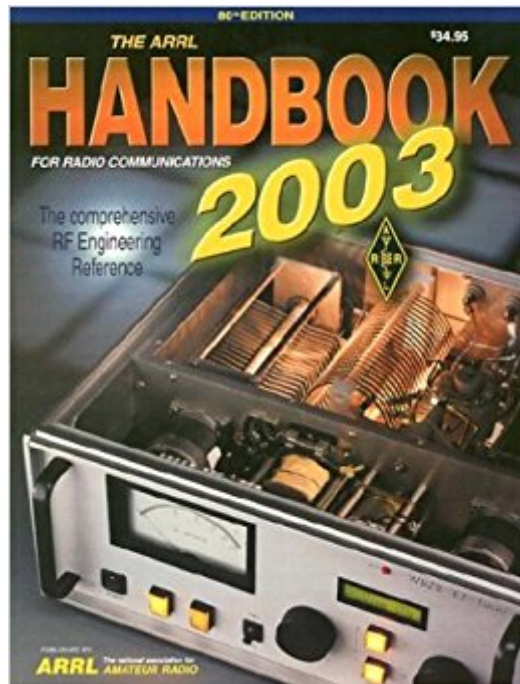


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The ARRL Handbook For Radio Communications 2003



Synopsis

Book by Dana George Reed, Editor, American Radio Relay League

Book Information

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"The ARRL Handbook for Radio Communications" has been the bible of amateur radio since 1926. The 80th edition carries on in the tradition set by prior editions by providing an outstanding overview of practical electronics as well as a wide range of information and over 60 projects on amateur radio communications. The "Handbook" starts with information on what amateur radio is, from the variety of people who are involved in the hobby to how to get started as a radio amateur. The book reviews the wide range of activities available to radio amateurs, with discussions of everything from emergency communications to Amateur Radio contests and awards. There's also a glossary of ham radio terms. The book continues with the fundamentals of electronics theory. First is a review of the mathematics required for applied electronics. For those who need a refresher, the chapter provides an excellent review of electronics mathematics, from significant figures and equations to complex algebra and logarithms. It also includes examples to help those with little prior background in math understand the principles involved. Next, the book discusses the fundamentals of electronics, from DC theory to AC theory, including both resistive and reactive components. This is followed with information on digital signal theory that starts with the basics of binary logic and builds up through computer hardware. The section on electronics theory wraps up with a discussion of analog signal

theory. This chapter covers the various circuits used in radio communications and the devices used in these circuits, from the ubiquitous transistor to integrated circuits. Each of the chapters in the fundamental theory section has a glossary of the terms introduced in that chapter.

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