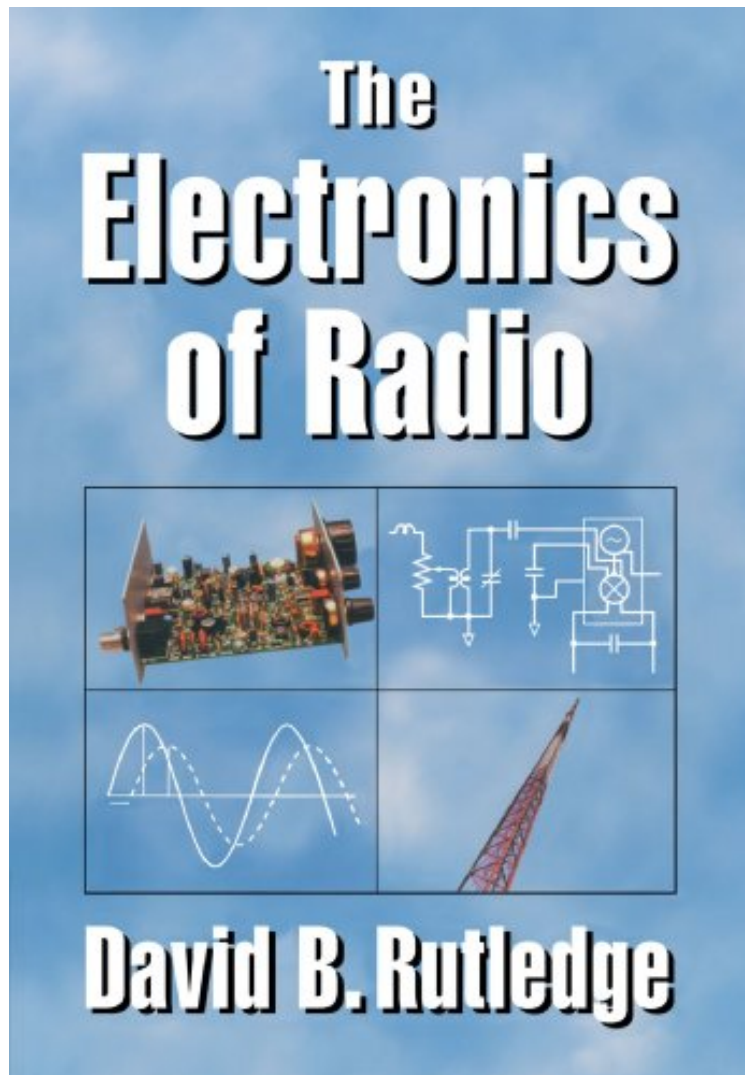


The Electronics of Radio

David Rutledge

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David Rutledge : The Electronics of Radio before purchasing it in order to gauge whether or not it would be worth my time, and all praised The Electronics of Radio:

7 of 7 people found the following review helpful. Very Best Book for its Purpose - Prerequisites Recommended By KS4RTS speaking from the view of an electronics technician who later became an educator (BS in Secondary Ed - U of TN 1980), I believe it accomplishes its purpose for being published (90%)! Knowing there are no perfect books or authors and one book can not teach you everything about such a complex technical subject, The Electronics of Radio is a very well written and organized book. However, having built one of the ORIGINAL NorCal 40 transceivers kitted by the Northern California QRP Club (years before the book was written), and having used this radio to make

hundreds of contacts across the US and Canada as KD4ZPA KS4RT, I would recommend the following books be read first! Basic Radio: Understanding the Key Building Blocks by Joel R. Hallas and published by the ARRL. Basic Radio describes radio theory in a much simpler, non engineering, manner. Its first few pages gives the background for basic communications almost 200 years ago and without boring the reader continues to give good examples, diagrams, and illustrations as radio communications progressed through the years up to today's modern digital communications equipment. For a more in depth study of basic electronics, I recommend, electronics DeMYSTiFieD by Stan Gibilisco and published by McGraw Hill. Both of these authors are college teachers (Professors), but do a very good job of making what could be boring reading at times, very interesting and engaging. Very little higher level math is required, but both books teach the same concepts in a more easily understood manner than is possible through a book like, The Electronics of Radio. Either or both of these books will make understanding The Electronics of Radio easier! Have more questions, my email, is ks4rt@hotmail.com. 6 of 6 people found the following review helpful. Good guide to the internal workings of a radio By Bit Twiddler I am ham radio operator. It had been years since I had dabbled in building a radio so found this book. I built the radio as I went through the book. It helped me successfully transition from tubes to transistors and integrated circuits. Now I have a great radio and know how to troubleshoot it when it has problems. Armed with the technical and conceptual knowledge I gained from this book, it is easy to understand circuitry in other ham radio gear, making it possible for me to do my own repairs. 2 of 2 people found the following review helpful. Meets and surpasses my expectations. By DBuckter Meets and surpasses my expectations. I'm a painting contractor. Not a lab tech by any stretch. I am an AMATEUR radio enthusiast. This is the text I've been waiting for. The author has put it all together in a creative, accessible format for "hams" like me. I have 3 purchased the companion QRP transceiver on which much of this material is based. I'd recommend doing this but the author's presentation is so clear and simple to understand (with a little hard work by the reader of course!) that the book is useful even with out the "rig". This will keep me busy and learning for years to come. Rutledge clearly respects and understands the history, the hobby, the profession, and the CRAFT of electronics and electronic communication. Kudos to the author for this innovative approach.

This innovative book provides a stimulating introduction to analog electronics by analyzing the design and construction of a radio transceiver. The author provides essential theoretical background at each step, along with carefully designed laboratory and homework exercises. This structured approach ensures a good grasp of basic electronics as well as an excellent foundation in wireless communications systems. The author begins with a thorough description of basic electronic components and simple circuits. He then describes the key elements of radio electronics, including filters, amplifiers, oscillators, mixers, and antennas. In the laboratory exercises, he leads the reader through the design, construction, and testing of a popular radio transceiver (the NorCal 40A), thereby illustrating and reinforcing the theoretical material. A diskette containing the widely known circuit simulation software, Puff, is included in the book. This book, the first to deal with elementary electronics in the context of radio, can be used as a textbook for introductory analog electronics courses, or for more advanced undergraduate classes on radio-frequency electronics. It will also be of great interest to electronics hobbyists and radio enthusiasts.

"Overall, this text is worthy of serious study for the care with which it combines theory and practice, and for the scope of its development from lowly, Ohm's law beginnings to substantive radio design incorporating gain and frequency stabilization." Contemporary Physics About the Author David Rutledge is a literature professor at the University of New Orleans. He edited this book while in exile from his city in the aftermath of Hurricane Katrina in fall 2005.