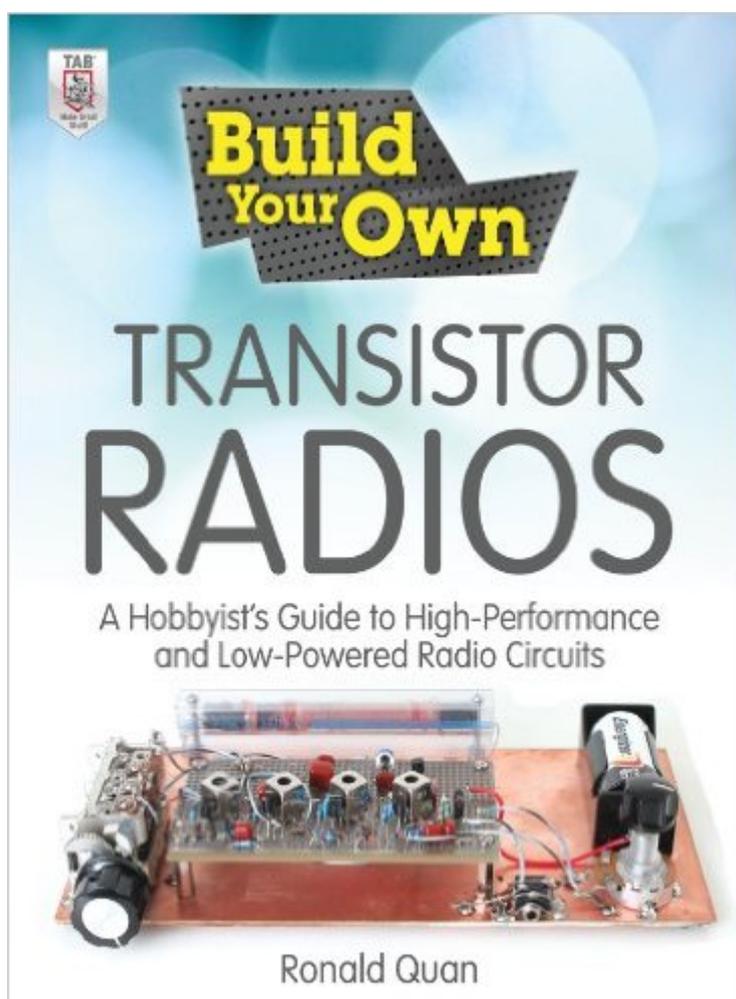


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# Build Your Own Transistor Radios: A Hobbyist's Guide To High-Performance And Low-Powered Radio Circuits



## Synopsis

A DIY guide to designing and building transistor radios Create sophisticated transistor radios that are inexpensive yet highly efficient. Build Your Own Transistor Radios: A Hobbyist's Guide to High-Performance and Low-Powered Radio Circuits offers complete projects with detailed schematics and insights on how the radios were designed. Learn how to choose components, construct the different types of radios, and troubleshoot your work. Digging deeper, this practical resource shows you how to engineer innovative devices by experimenting with and radically improving existing designs. Build Your Own Transistor Radios covers: Calibration tools and test generators TRF, regenerative, and reflex radios Basic and advanced superheterodyne radios Coil-less and software-defined radios Transistor and differential-pair oscillators Filter and amplifier design techniques Sampling theory and sampling mixers In-phase, quadrature, and AM broadcast signals Resonant, detector, and AVC circuits Image rejection and noise analysis methods This is the perfect guide for electronics hobbyists and students who want to delve deeper into the topic of radio. Make Great Stuff!TAB, an imprint of McGraw-Hill Professional, is a leading publisher of DIY technology books for makers, hackers, and electronics hobbyists.

## Book Information

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## Customer Reviews

This book is a very refreshing book with a unique approach to radio receiver design. Don't be fooled by the title, "Building Your Own Transistor Radios". This book is almost auto biographic. It takes many of the author's boyhood experiences with simple crystal radios and relives that experience. However, with 35 years in the industry and over 70 US patents, he can now give a much more thorough analysis of how and why the simple crystal radio works and how to improve it. The author then proceeds to improve the performance of a simple crystal radio. Covering the analysis of amplifiers, mixers, and filters and using these building blocks to construct his "super radios". A unique chapter is given on "Inductorless Radios". Using Gytrators as inductors, Mr. Quan shows several radio architectures using op amps to construct gyrators (and thus inductors) and build successful high performance radios. There is even a chapter on how to make your own signal generators for testing these circuits. The book can be described as broken into two sections. The first section for the casual hobbyist who wants to improve his/her understanding of radio receiver design and a second section for the more advanced radio engineer. The second section on analysis of distortion and noise is more typically taught at the graduate level at most engineering schools. The Chapters on Software Define (SDR) radios takes the reader from superheterodyne architecture to the present state of the art SDR radio using I and Q of a radio signal. He goes on to say, "With I and Q you can demodulate anything." Although one does not need to understand all the trigonometry involved in deriving many of the equations, Mr. Quan takes a step by step approach to the derivations.

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