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Experimental Methods In Rf Design (Radio Amateur's Library)



Synopsis

Immerse yourself in the communications experience by building equipment that contributes to understanding basic concepts and circuits. Explore wide dynamic range, low distortion radio equipment, the use of direct conversion and phasing methods, and digital signal processing. Use the models and discussion to design, build and measure equipment at both the circuit and the system level. Laced with new unpublished projects and illustrated with CW and SSB gear.

Contents:

- o Basic Investigations in Electronics
- o Chapters on Amplifiers, Filters, Oscillators, and Mixers
- o Superheterodyne Transmitters and Receivers
- o Measurement Equipment
- o Direct Conversion Receivers
- o Phasing Receivers and Transmitters
- o DSP Components
- o DSP Applications in Communications

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Customer Reviews

Anyone with an interest in RF design needs this book. The authors are well known and respected in the ham radio community for their prolific writings covering the full range of RF-related topics. The keys to the success of this book are its emphasis on practical solutions and a conversational writing style, not unlike the famous ARRL Handbook for Radio Communications (a.k.a., The Handbook). It focuses on the building blocks of transmitters and receivers, gradually moving from fundamentals (e.g., oscillator topologies) to practical building blocks (a stable VFO), and finally to complete systems such as a receiver. Some very useful and straightforward test equipment is also designed.

Much of the book is devoted to analog RF/audio design, but the chapters on DSP are quite welcome and again, quite accessible. Each example is clearly illustrated with clean, consistent, annotated schematics and parts lists and a nice narrative that walks the reader through the circuit. Above all, they explain exactly WHY that particular funny component was placed in that particular place, and how its value was selected, and what happens if you change its attributes. Theory is not overlooked, either, though they do try to steer away from calculus so far as possible, leaving that to the countless textbooks. References for each chapter are extensive and many are also supplied on the included CD-ROM. If you have any interest at all in RF design, and especially if you plan on building any equipment, I recommend that you buy this book. You will not be disappointed! -Gary, WB9JPS

Any amateur interested in the technical side of the hobby or who still builds some of his own equipment will find that this book is one of the most rewarding to be found! It deserves to be book number two in any ham library, right after the Handbook!

I am really pleased with this purchase. The authors bring their considerable expertise and expose their methods in designing practical radio equipment. I designed my first feedback amplifier with known input-output impedances and stage gain. It came out right on the money.

The popularity of this book in the Amateur Radio community is all the review that is needed! Ham radio types generally have bunches of books, many of them reference texts that are dusted off and referred to just occasionally. EMRFD, isn't one of those reference books. This text will take you through the construction of a first rate amateur radio station. It covers the "homebrew" construction of virtually every piece of equipment that you need to have a ham station capable of making contacts around the world! The bottom line, if you are an Amateur Radio operator this is a must have text. 73, Bart W0IIT

If you ever wanted to build your own radio equipment, this is one of the best mixtures of practical as well as theory. This book is an enhanced version of a prior text surrounding solid state amateur radio building. From HF to UHF, transmitters, receivers, transceivers - superhet as well as direct conversion topics. If you have any aspirations of building your own amateur radio gear, this is a MUST READ reference.

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