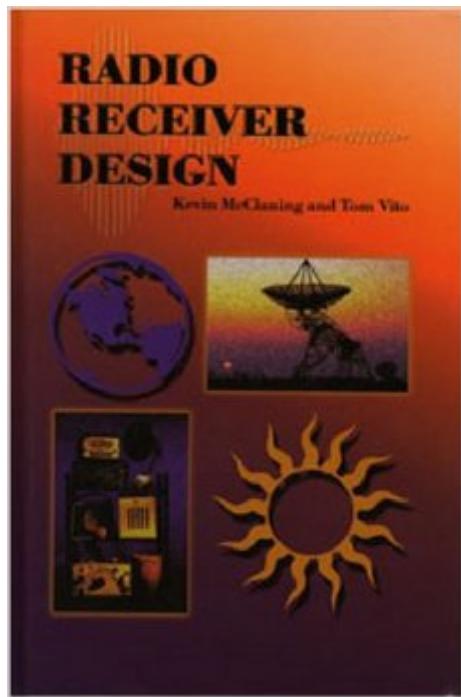


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# Radio Receiver Design



## **Synopsis**

Single-source handbook on receiver design. Contains extensive chapters on mixers, oscillators, filters, and amplifiers. Covers in detail all major components related to receiver design, including cascade interaction. Provides excellent introductions and technical background on basic as well as advanced component characteristics, featuring "war stories," exercises, design examples and an abundance of useful drawings and tables. Serves as a reference tool for students and professionals of electrical engineering, RF and microwave electronics and radio receiver design. Emphasizes practical and proven concepts that help clarify the role of each component within the design.

## **Book Information**

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## **Customer Reviews**

By way of full disclaimer, I just received this book. I previously searched for customer reviews but could find none. I took a chance on the rather skimpy reviews and ordered the book. Am I ever pleased! Having read through just the first chapter, I am impressed with the authors writing style. My sense is that the book is tutorial in nature, delivers an easy-to-read discussion of all the architectural components needed understand a receiver, and is full of specific examples of the topics discussed. The book is not a "cookbook" with specific circuit examples. The book approaches receiver design from the standpoint of architecture at a systems level with discussion of the specification, considerations, and other characteristics needed to understand good receiver design. Chapter 1 "introduces many of the basic concepts". I found that chapter one was a good review of the basic concepts more so than an introduction. Review of dB math, standard use of dBHz, dbK, etc.

Following topics include frequency, propagation, and wavelength, transmission lines, two-port networks, matching and power transfer, modulation theory (AM, FM, PM) in the time and frequency domain, and noise theory. Each topic is short in the sense that a 140+ page chapter cannot do justice to a complete coverage of each topic. That written, the authors provide clear explanations with great examples of each topic of discussion. I found the discussion of transmission line theory very well written, did not overwhelm the reader excessive high-level math, and covered the key transmission line concepts that a receiver designer needs to master. The authors tell "war stories" to discuss real-life issues illustrating why mastering each topic is important in practice.

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