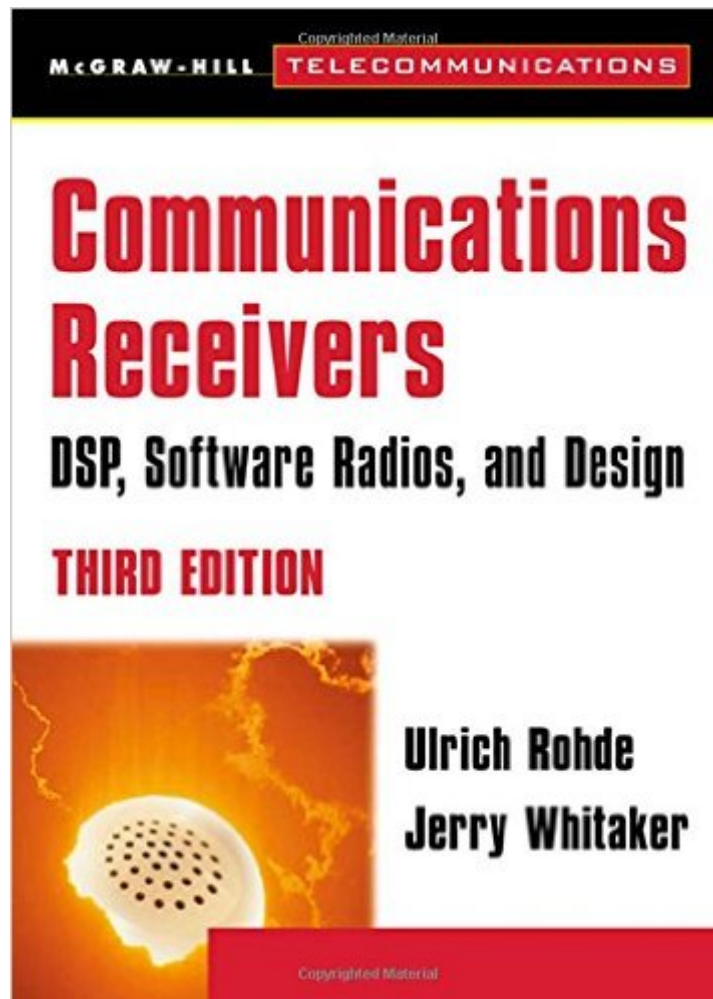


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# Communications Receivers: DSP, Software Radios, And Design



## Synopsis

The latest in DSP, cellular, and software radio design From reception basics to cutting-edge software radio design, *Communications Receivers, Third Edition* brings you a storehouse of task-simplifying and task-clarifying information, examples, and tips. Written by well-known experts Ulrich Rohde, Jerry Whitaker, and Andrew Bateman, this guide covers everything from front end systems to frequency generators and controllers. Topics are thoroughly illuminated for you with hundreds of illustrations, diagrams, and mathematical equations. You<sup>™</sup>ll learn the principles and practices involved in receivers and receiver systems, antennas and antenna coupling, amplifiers and gain control, mixers, frequency, oscillators, demodulation and demodulators, digital signal processing, and much more. Discover for yourself why this resource has been prized through two editions by professionals and hobbyists for its ready-to-use insights on the theory and design of all types of communications receivers -- including shortwave, military, broadcast, and direction-finding. This newly revised edition features: Advances in DSP, cellular, and software radio design Details on designing, operating, specifying, installing, and maintaining every kind of receiver in common use Specific design approaches, circuit examples, and component specs Help with microprocessors and logic devices Coverage of important pulse and data operating modes More than 250 illustrations and diagrams Handy reference material in tables, charts, and figures More!

## Book Information

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## Customer Reviews

To the guy who is disappointed in the DSP content: The book's synopsis clearly indicates that it contains SOME DSP material with this statement: "updates on all crucial DSP elements", but that does not mean it's a DSP reference volume. If you want DSP design instruction, try "Digital Signal Processing Technology" or something similar. If you want SDR material, also seek out the appropriately-focused material. This book is meant to be a general design guide and, as such, I think you have done it quite a disservice by unfairly rating it so low, based on only a single aspect of its otherwise excellent coverage of communications receiver topologies. It's like you had a temper tantrum. Anyway, the content in this book is exactly what I was looking for! This book will be the first step I will use in my own designs. It breaks down each building block of superhet receivers in a practical manner with only the required mathematics to support them.

I needed a book on software radio and so I gladly bought this book when I came across it. I expected a lot of detailed information about DSP and software radio. It's a thick book: 700 plus pages. However, DSP related contents only add up to 50 pages or so. Detailed treatment of software radio cannot be found anywhere. Even the itemized index has only one instance of 'software radio'. This book is mostly on (analog) circuit design issues for amps, mixers, oscillators, PLLs, etc. I strongly doubt the authors' intention of using the subtitle 'DSP, Software Radios, and Design'. If you want to know more about software radio, you wouldn't get it from this book.

good

el libro se ve bastante interesante, aborda los temas de los PLL, que utilizan para generar frecuencias bastante altas, estos dispositivos son utilizados en los sistemas celulares.

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