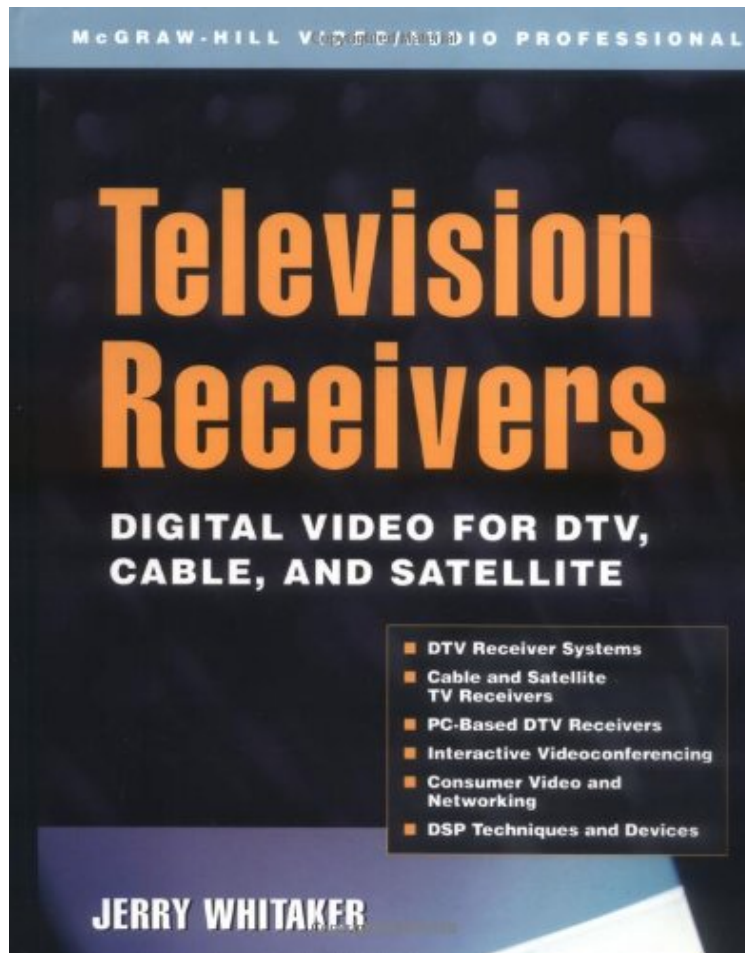


Television Receivers: Digital Video for DTV, Cable, and Satellite

Jerry Whitaker, Jerry Whitaker

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Jerry Whitaker, Jerry Whitaker : Television Receivers: Digital Video for DTV, Cable, and Satellite before purchasing it in order to gage whether or not it would be worth my time, and all praised Television Receivers: Digital Video for DTV, Cable, and Satellite:

3 of 4 people found the following review helpful. ExcellentBy magellanI'm reading this book right now, but haven't finished it, but was so pleased with the volume that I wanted to make a few comments. I might have more to say when I complete it.I bought this book after starting to bone up on digital TV, and realized that I could use a good, comprehensive review on analog TV, on which I'd become rusty. I'm not a professional in the field but an interested amateur, and was looking for a good book on the subject. In fact, it's primarily about digital TV, but there are excellent reviews of analog TV principles, including chapters on wave propagation; frequency sources; basic analog receiver principles and design, with discussions of the most important components, such as modulators and demodulators, amplifier principles; analog to digital conversion; phase locked loops and synchronization issues in general, analog and digital filters, consumer video and networking, cable television, satellite TV, and other topics.So this book fit the

bill. The book covers dozens of topics, from more descriptive to fairly technical, although there isn't too much math. But you still need to remember enough about the most important circuits and devices in the communications field to benefit from it. For example, there is a detailed discussion of why a simple diode-based envelope modulation detector, which is basically employed as a half-wave rectifier, doesn't work very well due to the diode's poor response characteristics, including higher noise, a tendency toward overmodulation distortion, and low power output and amplification, and why a transistor-based one with the collector biased to near saturation is better, providing a 15 to 20 db improvement. And then they explain why synchronous detectors, consisting of a phase-locked loop and multiplier circuits, are even better. The articles often discuss the problem with the basic approaches, as in the above case, and how to resolve them with better and more advanced designs. Many of the chapters are still pretty technical despite the lack of math, so don't let that fool you. In other words, your background should be at least as good as Schrader's classic, introductory volume on Electronic Communication before reading this, which is a book used in junior college technical courses in electronics. One chapter I found especially good, although quite dense with information, was the chapter on television reception of signals. It's the best 50-page review of the subject I've seen, and is written by a team of half a dozen authors. The articles are often written by more than one expert in the field. Subjects covered include analog and digital TV, cable TV, broadcast TV, and satellite TV. The satellite chapter is a little short, but then that would require a whole volume by itself, such as Roddy's volume on the subject, Satellite Communications, which I can also highly recommend. The book is now seven years old, but keep in mind this is more of an intermediate book covering many of the fundamentals as well as a lot of the more advanced material. Much of it is far beyond the basics, however, although perhaps not at the highest level with all the complex engineering math. My advanced math probably isn't at that level anymore, either, but if you can read and understand this, you'll probably know far more than anyone except an experienced broadcast engineering professional. This is an impressive volume and despite the price, was money well spent for me given all the quality information, especially considering how difficult it is to condense such a broad field into one book. But this volume does an excellent job of that.

All-the-answers guide to television receivers For the best handle on the brave new world of 21st century TV receiver design, specification, installation, and maintenance, look to Television Receivers, from leading expert Jerry Whitaker. This insider's guide explains what's new in receivers, making a complex subject manageable, accessible, and understandable. With its focus on changes and advances in TV receiver technology, this primer is a professional essential, with enough coverage of technological fundamentals to give you solid footing in new areas so you can: * Find needed details on DTV (digital) and analog receiver systems * Confidently plan and operate any new receiver type * Develop innovations for display, storage, and tuner components * Implement and service cable and satellite receiver equipment * Apply examples of Internet broadcast receiver and PC-based DTV systems * Build expertise in interactive videoconferencing and other business-related applications * Answer questions on technologies such as decoder chips * Understand CRT, projection, and flat panel display devices * Get examples of necessary mathematics, fully explained with practical examples, diagrams, and schematics,

From the Back Cover **BEST GUIDE FOR ENGINEERS AND TECHNICIANS Television Receivers**--from leading expert Jerry Whitaker--is the best handle you can find on the brave new world of 21st century TV receiver design, specification, installation, and maintenance. TV receivers don't come from a cookie cutter anymore. As audio did decades ago, TV systems are morphing into a range of components to handle a myriad of new and developing technical options. This insider's guide tackles what's new in receivers and makes it manageable, accessible, and understandable. With its focus on changes and advances in TV receiver technology, this primer is a professional essential. Yet there's also enough coverage of technological fundamentals to give you solid footing in new areas. **BEST CHOICE FOR PROFESSIONAL ANSWERS!** Offering solid value for your career, **TELEVISION RECEIVERS** comes fully loaded. It's packed with examples, diagrams, schematics, and the data you need to handle every aspect of the newest systems and devices. For a broad perspective on directions and trends, and a one-stop source of essential on-the-job answers, **TELEVISION RECEIVERS** is invaluable. The most complete technical reference to this expanding field, **TELEVISION RECEIVERS** can help you-- * Find needed details on DTV (digital) and analog receiver systems * Confidently plan and operate any new receiver type * Develop innovations for display, storage, and tuner components * Implement and service cable and satellite receiver equipment * Apply examples of PC-based DTV systems * Plan and develop consumer video and networking applications * Answer questions on technologies, such as decoder chips * Get a handle on CRT, projection, and flat panel display devices * Find examples of necessary mathematics, fully explained with practical examples About the Author Jerry Whitaker is Technical Director of the Advanced Television Systems Committee (ATSC), in Washington, DC. He was previously President of Technical Press, a consulting company based in the San Jose (CA) area. Mr. Whitaker has been involved in various aspects of the electronics industry for over 25 years, with specialization in communications. Mr. Whitaker has lectured extensively on the topic of electronic systems design, installation, and maintenance. He is the former editorial director and associate publisher of **BROADCAST ENGINEERING** and **VIDEO SYSTEMS** magazines, and a former radio

station chief engineer and television news producer. Mr. Whitaker is a Fellow of the Society of Broadcast Engineers and an SBE-certified professional broadcast engineer. He is also a fellow of the Society of Motion Picture and Television Engineers, and a member of the Institute of Electrical and Electronics Engineers. He has twice received a Jesse H. Neal Award Certificate of Merit from the Association of Business Publishers for editorial excellence, and been recognized as Educator of the Year by the Society of Broadcast Engineers. Mr. Whitaker resides in Morgan Hill, California.