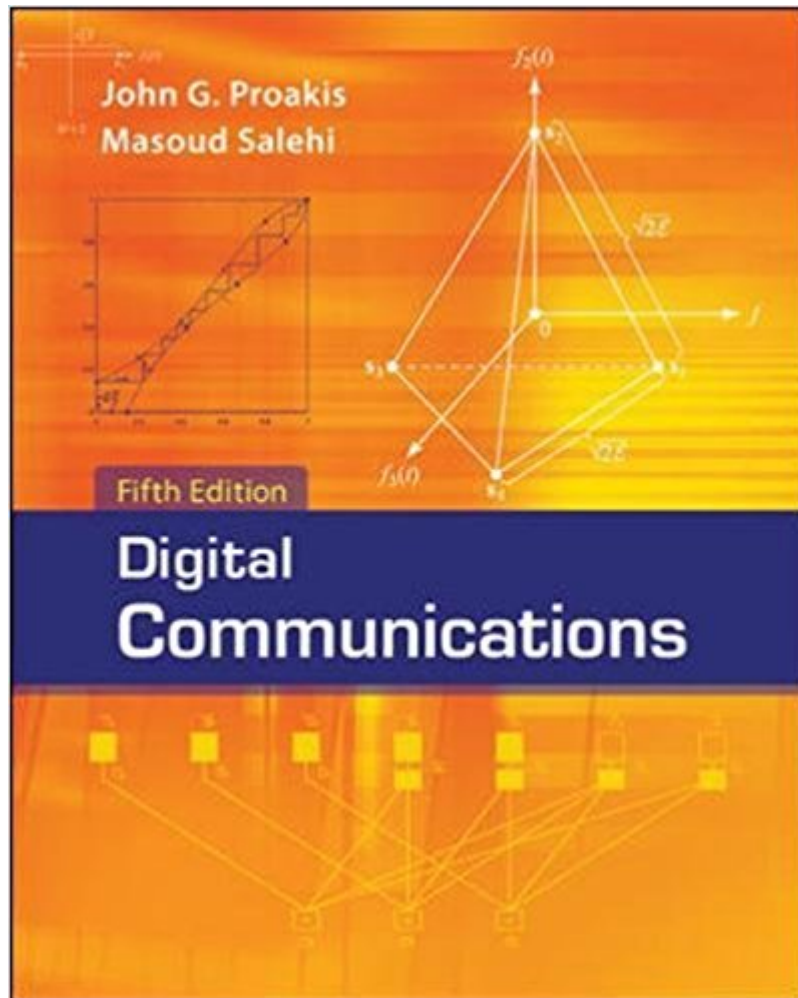




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Digital Communications, 5th Edition



Synopsis

Digital Communications is a classic book in the area that is designed to be used as a senior or graduate level text. The text is flexible and can easily be used in a one semester course or there is enough depth to cover two semesters. Its comprehensive nature makes it a great book for students to keep for reference in their professional careers. This all-inclusive guide delivers an outstanding introduction to the analysis and design of digital communication systems. Includes expert coverage of new topics: Turbocodes, Turboequalization, Antenna Arrays, Digital Cellular Systems, and Iterative Detection. Convenient, sequential organization begins with a look at the history and classification of channel models and builds from there.

Book Information

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Customer Reviews

Caveat: This would be a very difficult book to write. The subject is challenging and esoteric. That the authors took the time to write it should be applauded. Clearly, it took many human-years of study, effort, and work to produce the fifth edition of this book. While this is a critical review from a student's perspective, there is a great deal of knowledge to be gained from careful study of "Digital Communications". Hopefully some good will come out of my review by way of constructive feedback. That is, this is a review, and while I am not competent to write such a book, I feel I am qualified to review it. (You don't need to be a chef to review a restaurant.) This book requires more work and effort on the part of the student to learn Digital Communications than it should. Almost all equations are presented as equals. That is, it is rare that important equations are noted as being

important. The text makes frequent referrals to previous equations and figures several pages or even chapters back, often 2 or 3 different back references from a single page. I found myself having to spend the time rewriting an equation or figure in the margin. It would be good if the authors did this for us. Better content management tools may make this possible. The book covers more information than can be covered in a semester, probably more information than can be deeply covered in two graduate semesters. Some labeled equations are presented, and then modified in the subsequent prose, without a follow up labeled equation. And in some cases, the modifications are much more important than the initial equation. This is what I mean by the student must work—she or he must work to rewrite the book. The chapters on information theory (Ch. 6, 7, and 8) are poorly done. I knew more about information theory from other books prior to taking the course that used this textbook, and this textbook ended up confusing me—that is, I am going to forget what I "learned" in digital communications and refer back to my other information theory references. This is the opposite effect an educator should strive for. It focuses more on the analysis of codes (block or convolutional, for example) and all but ignores the design or implementation of said codes. Lastly, there are a lot of errata. See the publisher's website for the latest errata. Note that there are 6 pages of errata for the 5th edition of the book. I applaud the author for keeping the errata up to date. If there is a 6th edition of this book, I hope that they are able to figure out a way to get graduate students to flesh the errata out before publication. I have recommended to the professor that he keep using this book. For all its faults, it can be used to learn digital communications. However, I recommend a different text for information theory. I'd also recommend Contemporary Communication Systems Using MATLAB. I have corresponded with one of the authors, and he is a friendly person. Price gouging on part of publisher: You can save more than 90% by outsourcing my book supplier to a third world country. The content is the same, but the binding is paper back and the paper is lower quality. For the U.S., the publisher is using the fat wallets of U.S. students to defray the cost developing world students pay for the same material overseas. That's all fine and dandy, but if they wanted charity (the publishers) they could have asked for a donation.

While I was loathe to purchase this newest edition of Proakis' book on Digital Communications, owing to older editions floating around my lab, I decided it was worth it to shell out the money for this most recent edition. It is fairly concise, and provides an excellent survey of modern digital communications. Its treatment of OFDM and adaptive equalization as well as more traditional equalization methods is spot on, and this book is definitely sufficient to give a grad student enough

background to pursue more advanced topics.

This book covers every aspect of digital comm. in a thorough and comprehensive way. It can serve as a reference source. Students and practitioners alike will gain a powerful insight by studying its content.. Grigore Caragacianu

Nice product! thanks, very fast delivery. STAR STAR STAR STAR STAR

I bought this book to complement sklar and meshersmitt. Pretty even mix of theory and math. The CPM treatment is better than the other books...

Good book. Goes through everything i have needed for my class in digital communications. Sometimes i feel like it shortcuts too much tho

The most "complete" Digital Communications text I've come across in my narrow comparison. Detail comes with a price - you must be willing to read, as it's not a good quick reference

The book was in the excellent condition.

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