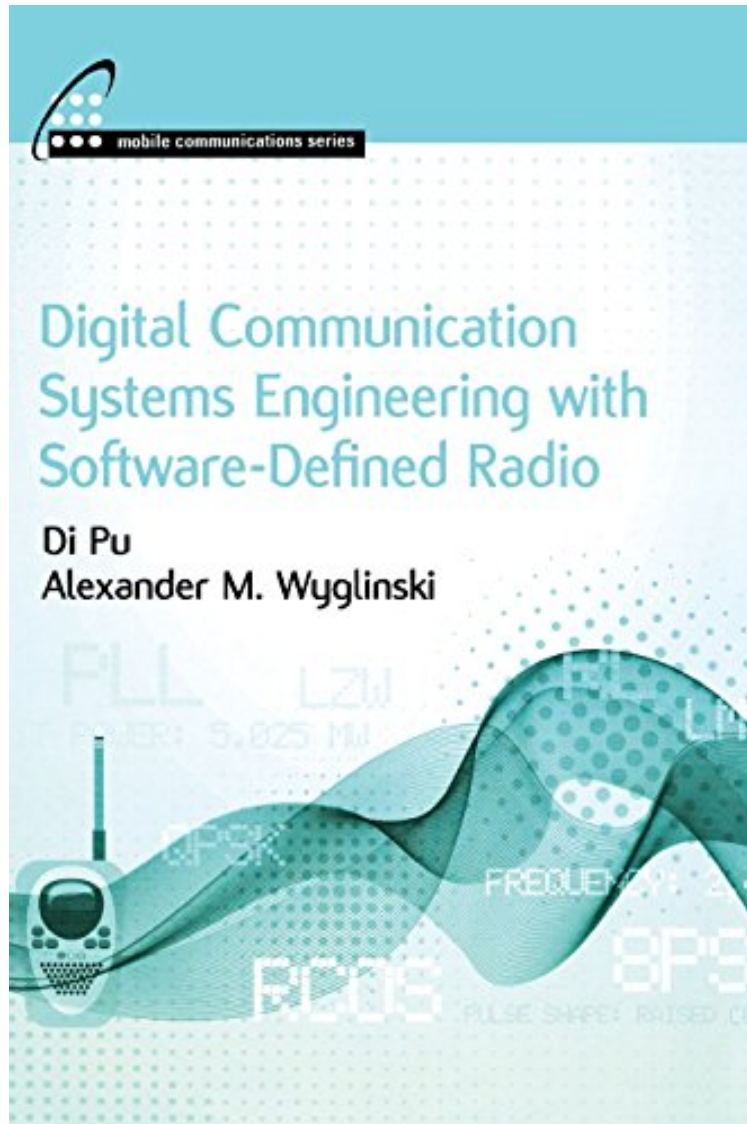


[Library ebook] Digital Communication Systems Engineering with Software-Defined Radio (Mobile Communications)

Digital Communication Systems Engineering with Software-Defined Radio (Mobile Communications)

Alexander M. Wyglinski, Di Pu

*Download PDF / ePub / DOC / audiobook / ebooks



DOWNLOAD



READ ONLINE

#1722964 in Books Artech House 2013-01-31 Original language: English PDF # 1 10.20 x .90 x 7.10, 1.52
#File Name: 1608075257200 pages | File size: 74.Mb

Alexander M. Wyglinski, Di Pu : Digital Communication Systems Engineering with Software-Defined Radio (Mobile Communications) before purchasing it in order to gage whether or not it would be worth my time, and all praised Digital Communication Systems Engineering with Software-Defined Radio (Mobile Communications):

0 of 0 people found the following review helpful. Needed more then physical layetBy Ahmed Sherif

AhmedEmphasize is on the physical layer. I was expecting something in addition related to inter-connectivity between SDR's ; Layer 2 at least 0 of 1 people found the following review helpful. It has some good background information on what a radio does. By SBNot impressed. Got the book at a time when I was really struggling to put together the USRP (now NI has bought it). It has some good background information on what a radio does. This book would be useful for someone that has some background in Communication before they start to read it. The explanation and detail simply is not there to give a full picture of how to design circuits. The book would be good for a technician/community college level instruction. Other than that, one is better off reading Proakis, or even other books (Michael Rice's book is a lot more informative and not as daunting as the Proakis communication book). T

This unique resource provides you with a practical approach to quickly learning the software-defined radio concepts you need to know for your work in the field. By prototyping and evaluating actual digital communication systems capable of performing over-the-air wireless data transmission and reception, this volume helps you attain a first-hand understanding of critical design trade-offs and issues. Moreover you gain a sense of the actual real-world operational behavior of these systems. With the purchase of the book, you gain access to several ready-made Simulink experiments at the publisher's website. This collection of laboratory experiments, along with several examples, enables you to successfully implement the designs discussed in the book in a short period of time. These files can be executed using MATLAB version R2011b or later. Contents: What is SDR? Signal System Overview. Probability Review. Digital Communications Review. Basic SDR Implementation of a Transmitter and a Receiver. Receiver Structure and Waveform Synthesis of a Transmitter and a Receiver. Multi-Carrier Modulation. Spectrum Sensing Techniques. Synchronization. Appendices.

About the Author Alexander M. Wyglinski is an assistant professor in the Department of Electrical and Computer Engineering at the Worcester Polytechnic Institute. He holds an M.S. in electrical engineering from Queen's University and a Ph.D. in electrical engineering from McGill University. Di Pu is a research assistant in the Wireless Innovation Laboratory at the Worcester Polytechnic Institute. She holds an M.S. in electrical engineering from the Worcester Polytechnic Institute, where she is currently a Ph.D. candidate.