



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

Alexander M. Wyglinski, Di Pu

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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.

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