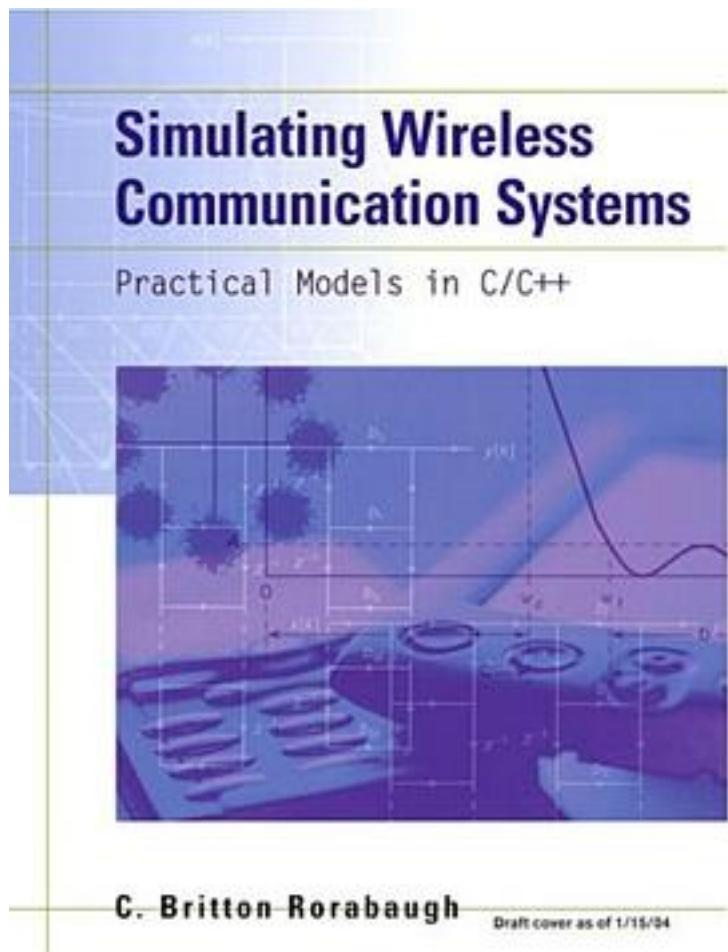


Simulating Wireless Communication Systems



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著者:C. Britton Rorabaugh

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The practical, inclusive reference for engineers simulating wireless systems

In order to keep prices within reach of the average consumer, cellular phone and

wireless data transceiver manufacturers resort to mass producing millions of units from a single design. Considering the design complexity and fabrication expense involved, typical prototyping is not practical—designs must first be tested and honed using simulation.

Author C. Britton Rorabaugh brings to the table more than 20 years of experience simulating large, state-of-the-art communications systems. In *Simulating Wireless Communication Systems*, Rorabaugh explores, using C++, practical and authoritative techniques for simulating even the most complex wireless communication systems. Along the way he shows you how to create custom simulations that fit your project's intended design, so that you and your engineering team aren't forced to resort to inadequate commercial simulation packages.

This book includes nearly two hundred models of practical devices for implementing wireless communication systems and major subsystems. Mathematical and statistical appendices are also included to provide useful information for those seeking to understand, set up, and use any of Rorabaugh's detailed device models.

Contents include:

A background and overview of simulation

Discussion of a variety of model types, including Random Process, Filter, and Channel models

Practical modulation and demodulation

Synchronization, signal shifting, and recovery

Detailed instructions for working with Galois fields

A comprehensive companion Web site featuring dozens of ready-to-run software modules

If you're an engineer or wireless communication project manager, then *Simulating Wireless Communication Systems: Practical Models in C++* will prove to be both a convenient reference and an ideal instructional manual for the creation of specialized wireless communication simulations that will enable you to bring your product to market in a cost-effective and efficient manner.

作者介绍:

C. BRITTON RORABAUGH has a BS and MS in Electrical Engineering from Drexel University and currently holds the position of Chief Scientist for a company that develops and manufactures specialized military communications equipment. He is the author of several publications on topics such as DSP, Digital Filters, and Error Coding and has experience in object-oriented design, realtime software, numerical methods, computer graphics, C++, C, SPW, MATLAB, Visio, TEX/LATEX, Microsoft Office, and assembly languages for various microprocessors and DSP devices.

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