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Simulation And Software Radio For Mobile Communications (Artech House Universal Personal Communications)



Synopsis

This cutting-edge, first-of-its-kind resource gives you a comprehensive understanding of the simulation and evaluation methods used for today's mobile communication systems. Written by two highly regarded experts in the field, the book focuses on the performance of both the physical and protocol layer transmission scheme. It defines and presents several invaluable simulation tools written in Matlab® code, along with clear examples that explain their use. You get in-depth discussions on digital modulation techniques, including Bpsk, Qpsk, Oqpsk, Msk, Gmsk, and Qam by using simulation programs. Moreover, the book also explains the history and configuration of both Ofdm and Cdma transmission scheme, discusses multiple access protocols, cellular telecommunication systems, and introduces cutting-edge software radio communication systems. This practical reference is packed with over 240 equations and 160 illustrations.

Book Information

Series: Artech House Universal Personal Communications

Hardcover: 448 pages

Publisher: Artech House; hardcover edition (May 1, 2002)

Language: English

ISBN-10: 1580530443

ISBN-13: 978-1580530446

Product Dimensions: 6 x 1.1 x 9 inches

Shipping Weight: 1.8 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars 4 customer reviews

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Customer Reviews

Very good, I am very satisfied

Harada & Prasad provide a very good working-level understanding of how to simulate communication systems using MATLAB. This book will appeal to advanced undergraduate and beginning graduate electrical engineers. It emphasizes nuts & bolts simulation, and assumes a good working knowledge of communication system analysis. Professionals who use MATLAB to analyze

communication systems for a living will find the coverage fairly basic - even shallow - but the authors will meet their goal of giving beginners a better leg up on the process. Including their MATLAB source code on a CD with the book may make the purchase worthwhile all by itself.

This book deserves my 5 stars due to its tremendous effort to illustrate how complex digital communications algorithms are actually put into "code" for applied research. Any newcomer to mobile communications will benefit extensively from reading and using this book. For practicing researchers and engineers, it provides a refreshing and often insightful revision of basic concepts, as well as exposure of newer technology such as OFDM and software radio. I recommend this book to all digital communications engineers.

If you need simulation hints this is the book. I really recommend it.

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