



Nonlinear Distortion in Wireless Systems: Modeling and Simulation with MATLAB (Wiley - IEEE)

Khaled M. Gharaibeh

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This book covers the principles of modeling and simulation of nonlinear distortion in wireless communication systems with MATLAB simulations and techniques

In this book, the author describes the principles of modeling and simulation of nonlinear distortion in single and multichannel wireless communication systems using both deterministic and stochastic signals. Models and simulation methods of nonlinear amplifiers explain in detail how to analyze and evaluate the performance of data communication links under nonlinear amplification. The book addresses the analysis of nonlinear systems with stochastic inputs and establishes the performance metrics of communication systems with regard to nonlinearity. In addition, the author also discusses the problem of how to embed models of distortion in system-level simulators such as MATLAB and MATLAB Simulink and provides practical techniques that professionals can use on their own projects. Finally, the book explores simulation and programming issues and provides a comprehensive reference of simulation tools for nonlinearity in wireless communication systems.

Key Features:

- Covers the theory, models and simulation tools needed for understanding nonlinearity and nonlinear distortion in wireless systems
- Presents simulation and modeling techniques for nonlinear distortion in wireless channels using MATLAB
- Uses random process theory to develop simulation tools for predicting nonlinear system performance with real-world wireless communication signals
- Focuses on simulation examples of real-world communication systems under nonlinearity
- Includes an accompanying website containing MATLAB code

This book will be an invaluable reference for researchers, RF engineers, and communication system engineers working in the field. Graduate students and professors undertaking related courses will also find the book of interest.

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