A comprehensive and detailed treatment of the program SIMULINK® that focuses on SIMULINK® for simulations in Digital and Wireless Communications

Modeling of Digital Communication Systems Using SIMULINK® introduces the reader to SIMULINK®, an extension of the widely-used MATLAB modeling tool, and the use of SIMULINK® in modeling and simulating digital communication systems, including wireless communication systems. Readers will learn to model a wide selection of digital communications techniques and evaluate their performance for many important channel conditions. Modeling of Digital Communication Systems Using SIMULINK® is organized in two parts. The first addresses Simulink® models of digital communications systems using various modulation, coding, channel conditions and receiver processing techniques. The second part provides a collection of examples, including speech coding, interference cancellation, spread spectrum, adaptive signal processing, Kalman filtering and modulation and coding techniques currently implemented in mobile wireless systems.

- Covers case examples, progressing from basic to complex

- Provides applications for mobile communications, satellite communications, and fixed wireless systems that reveal the power of SIMULINK modeling

- Includes access to useable SIMULINK® simulations online
All models in the text have been updated to R2018a; only problem sets require updating to the latest release by the user.

Covering both the use of SIMULINK® in digital communications and the complex aspects of wireless communication systems, *Modeling of Digital Communication Systems Using SIMULINK®* is a great resource for both practicing engineers and students with MATLAB experience.

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