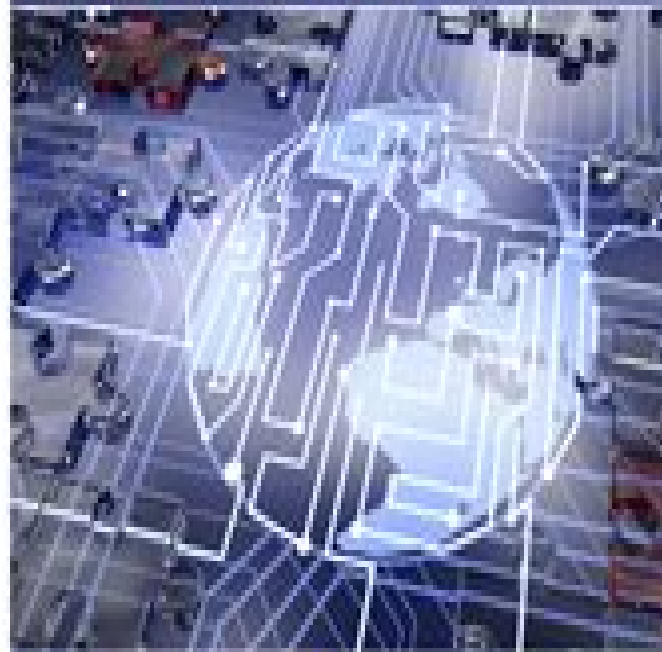


Modeling of Digital Communication Systems Using **SIMULINK**



Arthur Giordano • Allen Levesque

WILEY

Modeling Of Digital Communication Systems Using Simulink

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Modeling Of Digital Communication Systems Using Simulink:

Modeling of Digital Communication Systems Using SIMULINK Arthur A. Giordano, Allen H. Levesque, 2015-03-31 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 *Problem-Based Learning in Communication Systems Using MATLAB and Simulink* Kwonhue Choi, Huaping Liu, 2016-02-10 Designed to help teach and understand communication systems using a classroom tested active learning approach Discusses communication concepts and algorithms which are explained using simulation projects accompanied by MATLAB and Simulink Provides step by step code exercises and instructions to implement execution sequences Includes a companion website that has MATLAB and Simulink model samples and templates password matlab **Communication Systems Modeling and Simulation using MATLAB and Simulink** K. C.

Raveendranathan, 2011-09-07 This is probably the first book that employs the technique of simulation experiments as a means of reinforcing the basic concepts of communication theory Undergraduate students are generally exposed to a mathematically rigorous treatment of communications theory but seldom have the benefit of a practical orientated approach employing modelling and simulation for a thorough assimilation of the subject This book can supplement any standard textbook to cover this significant lacuna in the existing learning methodology It uses MATLAB the language of the technical computing fraternity for the purpose The introductory chapters provide an overview of computer simulation and MATLAB programming concepts Thereafter communications concepts are presented in the traditional manner but followed up with appropriate simulations in MATLAB Simulink Relevant MATLAB source code is given whenever it is used to illustrate a point

All the source code given in the text has been tested on MATLAB kernel version 7 10 Release R2010a and is provided in the accompanying CD

Simulation Technologies in Networking and Communications Al-Sakib Khan Pathan, Muhammad Mostafa Monowar, Shafiullah Khan, 2014-11-06 Simulation is a widely used mechanism for validating the theoretical models of networking and communication systems Although the claims made based on simulations are considered to be reliable how reliable they really are is best determined with real world implementation trials Simulation Technologies in Networking and Communications Selecting the Best Tool for the Test addresses the spectrum of issues regarding the different mechanisms related to simulation technologies in networking and communications fields Focusing on the practice of simulation testing instead of the theory it presents the work of more than 50 experts from around the world Considers superefficient Monte Carlo simulations Describes how to simulate and evaluate multicast routing algorithms Covers simulation tools for cloud computing and broadband passive optical networks Reports on recent developments in simulation tools for WSNs Examines modeling and simulation of vehicular networks The book compiles expert perspectives about the simulation of various networking and communications technologies These experts review and evaluate popular simulation modeling tools and recommend the best tools for your specific tests They also explain how to determine when theoretical modeling would be preferred over simulation This book does not provide a verdict on the best suitable tool for simulation Instead it supplies authoritative analyses of the different kinds of networks and systems Presenting best practices and insights from global experts the book provides you with an understanding of what to simulate where to simulate whether to simulate or not when to simulate and how to simulate for a wide range of issues

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