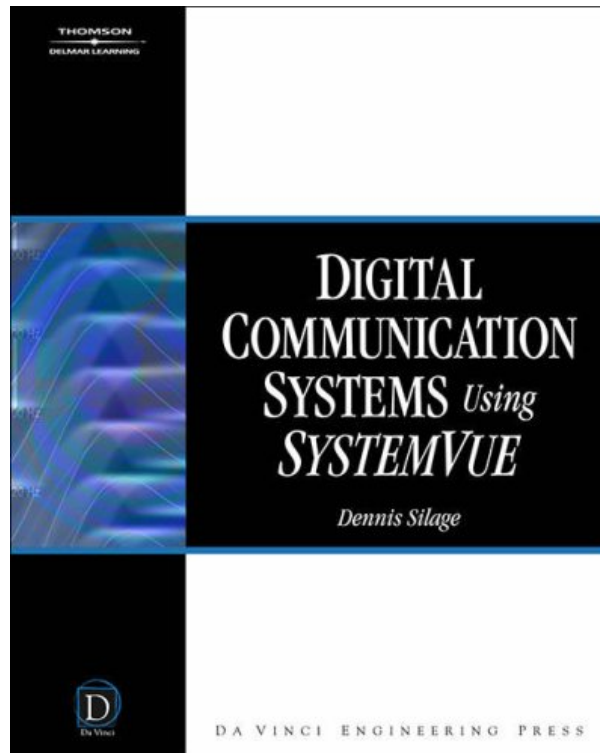
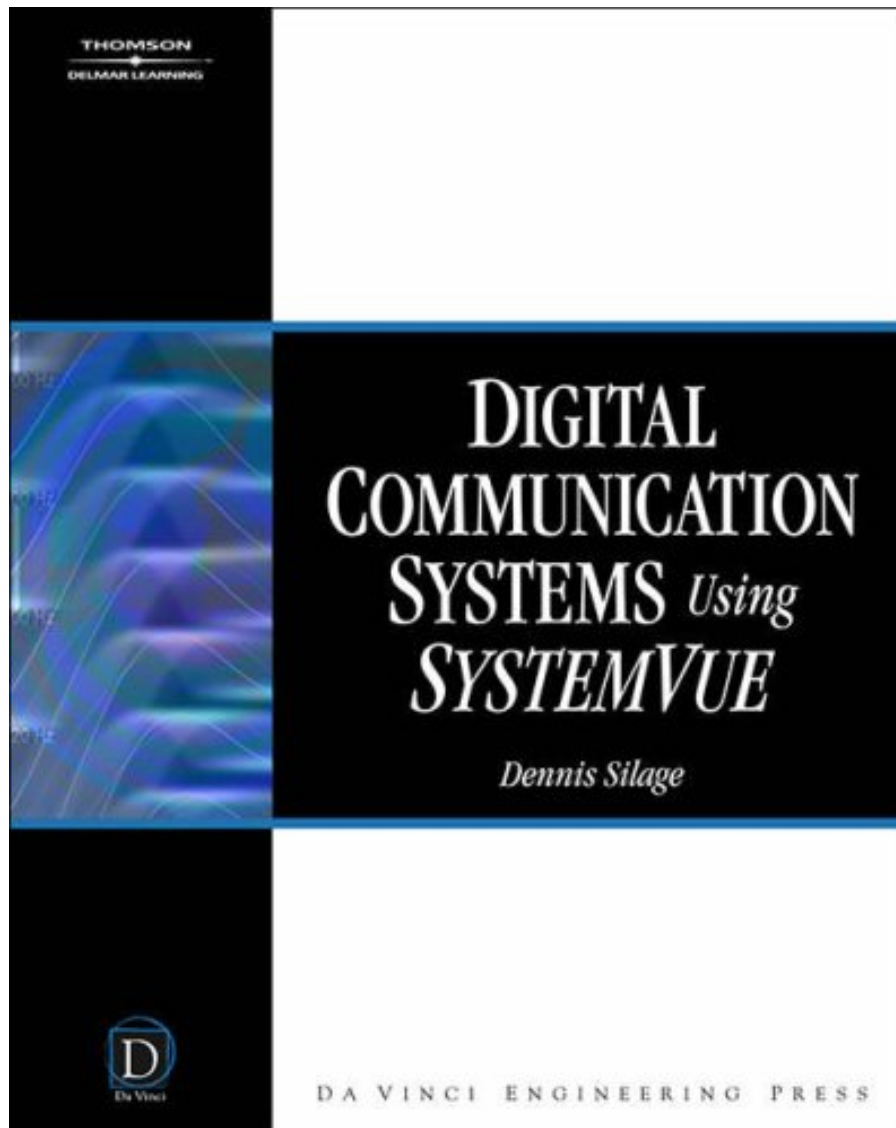


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About the Author

Dennis Silage (Philadelphia, PA) is a Professor in the Department of Electrical and Computer Engineering at Temple University. He has a Ph.D. in electrical engineering from the University of Pennsylvania, where he was on faculty from 1975 until 1984 when he joined Temple University. He is a senior member of the IEEE and director of the System Chip Design Laboratory, which researches the application of programmable gate arrays in digital signal processing and digital communication. He has published over 80 articles on signal and image processing and computational communications.

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DIGITAL COMMUNICATION SYSTEMS USING SYSTEMVUE

BY DENNIS SILAGE PDF

SystemVue (Formerly SystemView) by Agilent is a communication systems simulator with advanced capabilities for design, analysis, and implementation in DSP processors and in HDL. Digital Communication Systems Using SystemVue servers as an introduction to simulation for undergraduate students in a contemporary course, where it provides the opportunity to go beyond the lecture or the hardware laboratory. Graduate students in a rigorous first course will find the SystemVue simulation environment an adjunct to their understanding of the concepts of digital communication systems, facilitating their projects and theses. Professionals, once having had a course primarily in analog communications, will be able to acquaint themselves with modern digital communications in the SystemVue simulation environment. An extensive discussion of the precepts of digital communications is coupled with simulation models and observed results. With clear and concise descriptions this is an essential guide for anyone wishing to understand digital communication systems through simulations using SystemVue.

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0 of 0 people found the following review helpful.

Excellent Package

By Andrew Whitworth

As an engineering student, I have been exposed to a number of different textbooks on this subject, all with varying degrees of value. This book easily rises to the top of the pack. I will explain why.

Many books attempt to discuss the topic of electrical communication schemes through blunt mathematical rigor. Such an analysis may benefit the mathematically inclined, but leaves the rest of the students wanting. This book, however, is packaged with the excellent SystemVue software, a powerful software package that is used in industry to design actual communication systems. By utilizing the simulation software, in addition to

providing a large number of images (graphs, constellation plots, output waveforms, etc), readers are given a visualization of the complex topics discussed in the text.

I think that it is incredibly valuable to be able to visualize the concepts being discussed, and I also think it is important to see how a physically-realizable system can come to certain results. The differing effects of BFSK and QPSK for instance, may be difficult to understand in a purely mathematical context, but by viewing the output waveforms, and spectrums comparatively, the user is able to quickly discern the differences between the two schemes.

The only qualm I would have about this book is that the version of SystemVue that comes with the book is a heavily watered down version, and is only capable of simulating the examples from the book (the user cannot use the software to create a new simulation). However, when you consider the sheer price of the SystemVue software suite, it is amazing that the book's author was able to include any version at all. I highly recommend this book to anybody who is new to the subject of communication systems, and even people who have had classes on the subject, but want to see the material presented in a more visual way. Because of the relative inexpensiveness of this book, It makes an excellent counterpart to other textbooks that are more steeped in the mathematically rigorous derivations.

1 of 1 people found the following review helpful.

Includes SystemVue Software - Sort Of

By John Matlock

Note the words 'Using SystemVue' in the title of this book. The title might reflect the content better if it included the word 'simulation' somewhere. As it is, this book is a supplement, or addition to a standard text in digital communications.

Having said that, this is an excellent book on simulation. For one thing, it includes the SystemVue software. To be sure, it's the Textbook Edition of the software, so it is quite limited in its functionality. That is, you can simulate the systems described in the text and manipulate them to see what happens. What you cannot do is use the included software to simulate your own system.

With this book and the included demo software you'll learn how to simulate digital communication systems. When you get out into the real world you can fork over a small fortune to get a real SystemVue. At least you'll know what to do with it.

0 of 0 people found the following review helpful.

A comprehensive survey suitable for a college course

By D. Donovan, Editor/Sr. Reviewer

Dennis Silage's DIGITAL COMMUNICATION SYSTEMS USING SYSTEMVUE would be a fine college text with its comprehensive survey of the Agilent SystemVue simulation environment. Advanced users of the communications simulator will find here plenty of analysis and insights on DSP processors and applications, offering pros and advanced digital communications users an introduction to the SystemVue environment using plenty of examples and results.

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