Discrete Event System Simulation Pdf Download

In the second chapter, Random Walk, the focus is on evaluating randomness from random walks. In particular, the chapter covers how random numbers are used to generate random walks and also explains how to evaluate the randomness of the walk using statistical tools. The third chapter, Simulated Randomness Test, provides a mathematical tool to generate a quantitative measure of the amount of randomness present in a pseudorandom number sequence. In the fourth chapter, Short Numerical Tables, the focus is on obtaining short tables of pseudorandom numbers. The final chapter, Cryptographic Security, covers techniques in cryptography that rely on pseudorandom numbers. All of the programming in this book is using GNU Octave. This means that all of the examples are written using Octave's *"matlab"* language, which is similar to MATLAB. There is a difference between Octave and MATLAB. Octave is a free, open source, numerical computing and programming language. The language can be used to develop, simulate, and test mathematical models, with the focus on numerical computing. Octave is under the GPL, which means that the authors are giving anyone the right to modify, use, and share the software. The source code is freely available to the public. However, Octave is not part of the MATLAB

language; it is separate and allows the user to concentrate on a mathematical or programming problem, without having to remember what is going on in the background. For the reader who does not know Octave, the best way to use this book would be to first learn how to use Octave. It is useful to start with Chapter 1, Basic Statistics and Simple Simulations, which introduces the language, syntax, and use of Octave. One could then proceed to the other chapters and tutorials. Once one is comfortable with Octave, then the programmer should look at Chapter 2, Random Walk, for real world examples and applications. Chapter 1, Basic Statistics and Simple Simulations {#chapter-1-basic-statistics-and-simple-simulations.unnumbered} ========== ========== In this chapter, we introduce the reader to GNU Octave, an open-source numerical computing environment that is based on MATLAB. This chapter provides the basics to the reader, in the form of a tutorial

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