Discrete-Event System Simulation (4th Edition)

Banks / Carson / Nelson / Nicol

Note: This is not the actual book cover

Discrete Event System Simulation 4th Edition

G Orfield

Discrete Event System Simulation 4th Edition:

Discrete-Event System Simulation 4Th Ed Banks, *Discrete-event System Simulation* Jerry Banks,2010 For junior and senior level simulation courses in engineering business or computer science Discrete Event System Simulation examines the principles of modeling and analysis that translate to all software tools rather than a particular software tool This language independent text explains the basic aspects of the technology including the proper collection and analysis of data the use of analytic techniques verification and validation of models and designing simulation experiments It offers an up to date treatment of simulation of manufacturing and material handling systems computer systems and computer networks Students and instructors will find a variety of resources including simulation source code for download additional exercises and solutions web links and errata at the associated website http dmnicol web engr illinois edu bcnn index html

Fundamentals of Performance Evaluation of Computer and Telecommunication Systems Mohammed S. Obaidat,Noureddine A. Boudriga,2010-01-26 The only singular all encompassing textbook on state of the art technical performance evaluation Fundamentals of Performance Evaluation of Computer and Telecommunication Systems uniquely presents all techniques of performance evaluation of computers systems communication networks and telecommunications in a balanced manner Written by the renowned Professor Mohammad S Obaidat and his coauthor Professor Noureddine Boudriga it is also the only resource to treat computer and telecommunication systems as inseparable issues The authors explain the basic concepts of performance evaluation applications performance evaluation metrics workload types benchmarking and characterization of workload This is followed by a review of the basics of probability theory and then the main techniques for performance evaluation namely measurement simulation and analytic modeling with case studies and examples Contains the practical and applicable knowledge necessary for a successful performance evaluation in a balanced approach Reviews measurement tools benchmark programs design of experiments traffic models basics of queueing theory and operational and mean value analysis Covers the techniques for validation and verification of simulation as well as random number generation random variate generation and testing with examples Features numerous examples and case studies as well as exercises and problems for use as homework or programming assignments Fundamentals of Performance Evaluation of Computer and Telecommunication Systems is an ideal textbook for graduate students in computer science electrical engineering computer engineering and information sciences technology and systems It is also an excellent reference for practicing engineers and scientists **Encyclopedia of Measurement and Statistics** Neil J. Salkind,2007 Publisher Description *Information Control Problems in Manufacturing 2006* Alexandre Dolgui,Gerard Morel,Carlos Eduardo Pereira,2011-10-10 Information Control Problems in Manufacturing 2006 contains the Proceedings of the 12th IFAC Symposium on Information Control Problems in Manufacturing INCOM 2006 This symposium took place in Saint Etienne France on May 17 19 2006 INCOM is a tri annual event of symposia series organized by IFAC and it is promoted by the IFAC

Technical Committee on Manufacturing Plant Control The purpose of the symposium INCOM 2006 was to offer a forum to present the state of the art in international research and development work with special emphasis on the applications of optimisation methods automation and IT technologies in the control of manufacturing plants and the entire supply chain within the enterprise The symposium stressed the scientific challenges and issues covering the whole product and processes life cycle from the design through the manufacturing and maintenance to the distribution and service INCOM 2006 Technical Program also included a special event on Innovative Engineering Techniques in Healthcare Delivery The application of engineering and IT methods in medicine is a rapidly growing field with many opportunities for innovation The Proceedings are composed of 3 volumes Volume 1 Information Systems Control Interoperability Volume 2 Industrial Engineering Volume 3 Operational Research 3 volume set containing 362 carefully reviewed and selected papers presenting the state of the art in international research and development in Information Control problems in Manufacturing **Operations Research** Michael Carter,Camille C. Price,Ghaith Rabadi,2018-08-06 Operations Research A Practical Introduction is just that a hands on approach to the field of operations research OR and a useful guide for using OR techniques in scientific decision making design analysis and management The text accomplishes two goals First it provides readers with an introduction to standard mathematical models and algorithms Second it is a thorough examination of practical issues relevant to the development and use of computational methods for problem solving Highlights All chapters contain up to date topics and summaries A succinct presentation to fit a one term course Each chapter has references readings and list of key terms Includes illustrative and current applications New exercises are added throughout the text Software tools have been updated with the newest and most popular software Many students of various disciplines such as mathematics economics industrial engineering and computer science often take one course in operations research This book is written to provide a succinct and efficient introduction to the subject for these students while offering a sound and fundamental preparation for more advanced courses in linear and nonlinear optimization and many stochastic models and analyses It provides relevant analytical tools for this varied audience and will also serve professionals corporate managers and technical consultants **An Introduction to Simulation Using GPSS/H** Thomas J. Schriber,1991-01-16 Employs the same painstaking thoroughness and accuracy in introducing the GPSS language that made the 1974 book so popular Includes an educational version GPSS H from Wolverine Software for personal computers that is as powerful except in file size as the package that costs commercial users over 5 000 Available in two versions one with 5 1 4 disks and one with 3 1 2 disks Encyclopedia of Healthcare Information Systems Nilmini Wickramasinghe,2008 Focusing on a healthcare organization s ability to improve access quality and value of care to the patient this volume provides an extensive and rich compilation of international research which discusses the use adoption design and diffusion of information communication technologies ICTs in healthcare *Discrete Event System Simulation 4e* Jerry Banks,2005 **Discrete Systems Simulation** Behrokh Khoshnevis,1994 *Practical Process Simulation Using*

Object-oriented Techniques and C++ José M. Garrido,1999 Intended to help novices and seasoned pros better understand the construction and use of the process interaction approach to discrete event simulation using object oriented modeling and programming this book details both the fundamentals and implementation aspects of simulation modeling using C Analysts software engineers and programmers faced with the challenge of developing medium to large complex systems will put this book to work in helping them more efficiently design and test systems and alternative concepts *Principles of Discrete Event Simulation* George S. Fishman,1978 **Discrete-event System Simulation** Jerry Banks,John S. Carson,Barry L. Nelson,1996 **Quantitative Business Modeling** Jack R. Meredith,Scott M. Shafer,Efraim Turban,2002 Rather than giving instruction in models and solving problems this textbook focuses on the process of modeling and the use of models in analyzing various managerial situations The process of modeling is highly relevant to all business disciplines and is a critical skill for all professionals The emphasis of this text will be on the integration and development of modeling skills including problem recognition data collection model formulation analysis and communicating and implementing the results *South Jersey Real-Time Motorist Information System* Kaan Özbay,2004 *Humanities and Social Sciences* ,2008 Memorandum ,1999 *McGraw-Hill encyclopedia of science & technology* McGraw-Hill,2002 Proceedings ,1997 **Operations Research Analysis in Test and Evaluation** Donald L. Giadrosich,1995 This text represents a significant contribution to the available technical literature on military and commercial test and evaluation T E The first chapter provides important history and addresses the vital relationship of quality T E to the acquisition and operations of defense weapons systems Subsequent chapters cover such concepts as cost and operational effectiveness analysis modeling and simulation and verification validation and accreditation among others

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