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Discrete-event System Simulation. Jerry Banks, John Carson, II, Barry Nelson. Prentice Hall, 2010 - Technology & Engineering - 622 pages. 3 Reviews. Discrete Event System Simulation is ideal for...

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Discrete-Event System Simulation Fourth Edition Jerry Banks John S. Carson II Barry L. Nelson David M. Nicol January 4, 2005. Contents 1 Introduction to Simulation 1 2 Simulation Examples 5 ... of discrete-event simulation and provide practice in utilizing concepts found in the text.

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Simulation ...

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A discrete-event simulation models the operation of a system as a sequence of events in time. Each event occurs at a particular instant in time and marks a change of state in the system. Between consecutive events, no change in the system is assumed to occur; thus the simulation time can directly jump to the occurrence time of the next event, which is called next-event time progression. In addition to next-event time progression, there is also an alternative approach, called fixed-increment time

Discrete-event simulation - Wikipedia

via Simulation Text Books: 1. Jerry Banks, John S. Carson II, Barry L. Nelson, David M. Nicol: Discrete-Event System Simulation, 5th Edition, Pearson Education, 2010. (Listed topics only from Chapters1 to 12) Reference Books: 1. Lawrence M. Leemis, Stephen K. Park: Discrete – Event Simulation: A First Course, Pearson Education, 2006. 2.

SYSTEM MODELLING AND SIMULATION

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9780136062127: Discrete-Event System Simulation - AbeBooks ...

Discrete-Event System Simulation FIFTH EDITION Jerry Banks Technolögico de Monterrey, Campus Monterrey John S. Carson II Independent Simulation Consultant Barry L. Nelson Northwestern University David M. Nicol University of Illinois, Urbana-Champaign Upper Saddle River • Boston • Columbus • San Francisco • New York • Amsterdam

Discrete-Event System Simulation - GBV

Discrete-event System Simulation (Paperback) Published January 1st 2005 by Prentice Hall India. Paperback, 624 pages. Author (s): Jerry Banks, John S. Carson II. , Barry L. Nelson. ISBN:

Editions of Discrete-Event System Simulation by Jerry Banks

This is a thorough and sober introduction to discrete-event simulation just as I learned it "on the fly" as an Operations Research Analyst at McDonell-Douglas Missile and Systems Analysis Division (MDMSD), in Huntington Beach, California, circa, 1965 (correctly described here as the "period of advent.")

Amazon.com: Customer reviews: Discrete-Event System

...

Jerry Banks retired in 1999 as a professor in the School of Industrial and Systems Engineering, Georgia Institute of Technology, after which he worked as senior simulation technology advisor for Brooks Automation; he is currently an independent consultant. He is the author, coauthor, editor, or coeditor of eleven books, one set of proceedings, several chapters in texts, and numerous technical papers.

Discrete-Event System Simulation - Pearson

DISCRETE EVENT SIMULATION Jerry Banks Marietta, Georgia 30067. Initially published in the Proceedings of the 1999 Winter Simulation Conference (ed. P.A. Farrington, H.B. Nembhard, D.T. Sturrock, G.W. Evans) pp. 7-13. I. KEY TERMS II.

DISCRETE EVENT SIMULATION Jerry Banks Marietta, Georgia ...

Discrete-Event System Simulation (4th Edition) and a great selection of related books, ... Discrete-Event System Simulation. Banks, Jerry , Carson, John, Nelson, Barry L. Published by Pearson, United States (2004) ISBN 10: 0131446797 ISBN 13: 9780131446793. Used. Softcover.

0131446797 - Discrete-event System Simulation by Carson ...

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Discrete Event System Simulation is ideal for junior- and senior-level simulation courses in engineering, business, or computer science. It is also a useful reference for professionals in operations research, management science, industrial engineering, and information science. While most books on simulation focus on particular software tools, Discrete Event System Simulation examines the principles of modeling and analysis that translate to all such tools. 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 at the associated website, www.bcnn.net/, including simulation source code for download, additional exercises and solutions, web links and errata.

This book provides a basic treatment of discrete-event simulation, including the proper collection and analysis of data, the use of analytic techniques, verification and validation of models, and designing simulation experiments.Contains up-to-date treatment of simulation of manufacturing and material handling systems. Includes numerous solved examples. Offers an integrated website. Explains how to interpret simulation software output.For those interested in learning more about discrete-event simulation.

For junior- and senior-level simulation courses in engineering, business, or computer science. While most books on simulation focus on particular software tools, Discrete Event System Simulation examines the principles of modeling and analysis that translate to all such tools. 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 at the associated website, www.bcnn.net/, including simulation source code for download, additional exercises and solutions, web links and errata.

INDICE: Introduction to simulation. Simulation examples. General principles. Simulation software. Statistical models in simulation. Queueing models. Random-number generation. Random-variate generation. Input modeling. Verification and validation of simulation models. Output analysis for a single model. Comparison and evaluation of alternative system designs. Simulation of manufacturing and material handling systems. Simulation of computer systems.

The only complete guide to all aspects and uses of simulation-from the international leaders in the field There has never been a single definitive source of key information on all facets of discrete-event simulation and its applications to major industries. The Handbook of Simulation brings together the contributions of leading academics, practitioners, and software developers to offer authoritative coverage of the principles, techniques, and uses of discrete-event simulation. Comprehensive in scope and thorough in approach, the Handbook is the one reference on discrete-event simulation that every industrial engineer, management scientist, computer scientist, operations manager, or operations researcher involved in problem-solving should own, with an in-depth examination of: * Simulation methodology, from

experimental design to data analysis and more * Recent advances, such as object-oriented simulation, on-line simulation, and parallel and distributed simulation * Applications across a full range of manufacturing and service industries * Guidelines for successful simulations and sound simulation project management * Simulation software and simulation industry vendors

Computer modeling and simulation (M&S) allows engineers tostudy and analyze complex systems. Discrete-event system(DES)-M&S is used in modern management, industrial engineering,computer science, and the military. As computer speeds and memorycapacity increase, so DES-M&S tools become more powerful andmore widely used in solving real-life problems. Based on over 20 years of evolution within a classroomenvironment, as well as on decades-long experience in developingsimulation-based solutions for high-tech industries, Modelingand Simulation of Discrete-Event Systems is the only book onDES-M&S in which all the major DES modeling formalisms –activity-based, process-oriented, state-based, and event-based– are covered in a unified manner: A well-defined procedure for building a formal model in theform of event graph, ACD, or state graph Diverse types of modeling templates and examples that can beused as building blocks for a complex, real-life model A systematic, easy-to-follow procedure combined with sample C#codes for developing simulators in various modeling formalisms Simple tutorials as well as sample model files for usingpopular off-the-shelf simulators such as SIGMA®, ACE®,and Arena® Up-to-date research results as well as research issues anddirections in DES-M&S Modeling and Simulation of Discrete-Event Systems is anideal textbook for

undergraduate and graduate students ofsimulation/industrial engineering and computer science, as well asfor simulation practitioners and researchers.

"This is an excellent and well-written text on discrete event simulation with a focus on applications in Operations Research. There is substantial attention to programming, output analysis, pseudo-random number generation and modelling and these sections are quite thorough. Methods are provided for generating pseudo-random numbers (including combining such streams) and for generating random numbers from most standard statistical distributions." --ISI Short Book Reviews, 22:2, August 2002

Theory of Modeling and Simulation: Discrete Event & Iterative System Computational Foundations, Third Edition, continues the legacy of this authoritative and complete theoretical work. It is ideal for graduate and PhD students and working engineers interested in posing and solving problems using the tools of logico-mathematical modeling and computer simulation. Continuing its emphasis on the integration of discrete event and continuous modeling approaches, the work focuses light on DEVS and its potential to support the co-existence and interoperation of multiple formalisms in model components. New sections in this updated edition include discussions on important new extensions to theory, including chapter-length coverage of iterative system specification and DEVS and their fundamental importance, closure under coupling for iteratively specified systems, existence, uniqueness, non-deterministic conditions, and temporal progressiveness (legitimacy). Presents a 40% revised and expanded new edition of this classic book with many

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