

Simulation Using Promodel Charles Harrell

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the book promotes a hands on approach to simulation an accompanying cd contains a version of promodel a promodel tutorial and promodel lab solutions promodel a widely used simulation language is covered extensively in the text lab exercises walk students through the use of promodel to do statistical distribution fitting basic modeling model verification and debugging as well as output analysis and optimization a set of cases in manufacturing warehousing and service industries is also provided and can be assigned as simulation projects

simulation using promodel helps students build competence and confidence in the use of simulation through hands on application the text features a blend of theory and practice real life examples case studies and lab exercises using promodel to help students develop their knowledge and abilities part i consists of 14 study chapters the first four chapters introduce simulation its application to system design and improvement and how simulation works chapters 5 through 11 cover the practical and theoretical aspects of conducting a simulation project including applying simulation optimization chapters 12 through 14 cover applications of simulation to manufacturing material handling and service systems part ii features 14 labs that correlate with the 14 chapters in part i each lab guides students through the steps of modeling a situation using promodel and then provides exercises to further develop their skills

simulation using promodel covers the art and science of simulation in general and the use of promodel simulation software in particular the text blends theory with practice actual applications in business services and manufacturing and a hands on approach to simulation

including real world simulation projects are emphasized the third edition of simulation using promodel reflects the most recent version of the promodel software in all the examples and labs as well as expanded coverage on generating random variates and design of experiments additionally the lead author is founder and chief technology advisor for promodel corporation

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this book constitutes the refereed post proceedings of the 13th international conference on ai simulation and planning in high autonomy systems ais 2004 held in jeju island korea in october 2004 the 74 revised full papers presented together with 2 invited keynote papers were carefully reviewed and selected from 170 submissions after the conference the papers went through another round of revision the papers are organized in topical sections on modeling and simulation methodologies intelligent control computer and network security hla and simulator interoperation manufacturing agent based modeling devs modeling and simulation parallel and distributed modeling and simulation mobile computer networks based simulation and natural systems modeling and simulation environments ai and simulation component based modeling watermarking and semantics graphics visualization and animation and business modeling

seeks to improve communication between managers and professionals in or ms

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

fourteen contributions from mechanical engineering instructors and industry professionals discuss various subjects in mechanical engineering technology as they relate to education topics include for example a description of a student exchange program with siemens westinghouse and the u of central florida a visual basic program used to help engineering students to calculate gear features and undergraduate research into motorsports safety at u of north carolina charlotte the volume is not indexed c book news inc

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