



PRINCIPLES OF MODELING AND SIMULATION

By JOHN A. SOKOLOWSKI, CATHERINE M. BANKS

Wiley India Pvt Ltd. Paperback. Book Condition: New. This book provides an introduction to the theory and applications of modeling and simulation with a multidisciplinary perspective, and the authors offer a concise look at the key concepts that make up the field of modeling and simulation. The book is organized into the following three parts: Principles of Modeling and Simulation (Part One) provides a brief history of modeling and simulation, lists the many uses or applications of modeling and simulation, speaks to the advantages and disadvantages of using models in problem solving, and covers the two main reasons to employ modeling and simulation by solving a specific problem and using related applications to gain insight into complex concepts; Theoretical Underpinnings (Part Two) examines various modeling techniques, provides a definition for simulation and introduces the reader to two main simulation concepts (discrete event simulation and simulation of continuous systems), explains the two primary methods in which humans interface with simulations, and explains both verification and validation and why they are important; and Practical Domains (Part Three) delves into specific case studies related to transportation, business, medicine, and enterprise decision support, addresses the challenges of modeling and simulation by providing the basis...



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