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INTRODUCTION TO MODELING AND SIMULATION Anu Maria State University of New York at Binghamton Department of Systems Science and Industrial Engineering Binghamton, NY 13902-6000, U.S.A. ABSTRACT This introductory tutorial is an overview of simulation modeling and analysis. Many critical questions are answered in the paper. What is modeling? What is

### **Introduction to Modeling and Simulation**

“ Modeling and simulation could take 80% of control analysis effort. “ Model is a mathematical representations of a system “ Models allow simulating and analyzing the system

### **Lecture 9 “ Modeling, Simulation, and Systems Engineering**

4 Goal of modeling and simulation A model can be used to investigate a wide verity of “what if” questions about real-world system. Potential changes to the system can be simulated and predicate their impact on the system.

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SIMULATION MODELING & ANALYSIS Averill M. LAw W David ~lton ... quality control. He serves as Associate Editor for Operations Research and IIE Transactions, and is Simulation Area Editor for the ORSA Journal on Comput-v . vi ABOUT THE AUTHORS ... Simulation Model 10

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