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Nota di contenuto	MODELING AND SIMULATION FOR ANALYZING GLOBAL EVENTS; CONTENTS; Preface; I PRINCIPLES OF MODELING AND SIMULATION: ADVANCING GLOBAL STUDIES; 1 Modeling and Simulation: What, When, and Why; Introduction; An Overview of Modeling and Simulation; A Brief History of Modeling and Simulation; Why Use Modeling and Simulation; Conclusions; Key Terms; References; Further Reading; 2 Research Methodologies for Modeling Global Events; Introduction; Global Events and the Social Sciences; Qualitative and Quantitative Research; Modeling and Simulation of Global Events; Mapping Data: A Suggested Methodology Model ValidationConclusions; Key Terms; References; II MODELING PARADIGMS; 3 System Dynamics; Introduction; Dynamic System Behavior; Building Blocks of System Dynamics Models; Conclusions; Key Terms; References; 4 Agent-Based Modeling and Social Networks;

Introduction; Agent-Based Models: Description and Definition; Social Networks; Building an Agent-Based Model; Conclusions; Key Terms; References; 5 Game Theory; Introduction; Fundamentals of Game Theory; Types of Games; Conclusions; Key Terms; References; III MODELING GLOBAL EVENTS; 6 Case Study: Colombia-A Country Study of Insurgency

IntroductionDeveloping the Research Question and Methodology; Background: Qualitative Research; Mapping Qualitative to Quantitative; System Dynamics; Responding to the Research Question; Key Terms; References; Case Study Bibliography; 7 Case Study: The Polish Solidarity Movement-Laying the Foundation for the Collapse of Soviet Communism; Introduction; Developing the Research Question and Methodology; Background: Qualitative Research; Measuring Agents and Environments: Stimuli and Actions; Modeling Human Behavior with Agents; Responding to the Research Question; Conclusions; Key Terms ReferencesCase Study Bibliography; 8 Case Study: Vietnam-Johnson's War, 1963-1965; Introduction; Developing the Research Question and Methodology; Background: Qualitative Research; Analyzing the Social Network Structures; Social Network Aspects of Human Behavior Modeling; Agent-Based Model Development; Responding to the Research Question; Key Terms; References; Case Study Bibliography; 9 Case Study: Cuban Missile Crisis-A National Security Emergency; Introduction; Developing the Research Question and Methodology; Background: Qualitative Research; Evaluating Behaviors; Game Theory Responding to the Research QuestionKey Terms; References; Case Study Bibliography; Index

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#### Sommario/riassunto

one-of-a-kind introduction to the theory and application of modeling and simulation techniques in the realm of international studies Modeling and Simulation for Analyzing Global Events provides an orientation to the theory and application of modeling and simulation techniques in social science disciplines. This book guides readers in developing quantitative and numeric representations of real-world events based on qualitative analysis. With an emphasis on gathering and mapping empirical data, the authors detail the steps needed for accurately analyzing global events and outline

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