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Descrizione fisica	1 online resource (214 p.)
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Front cover; Contents; Preface; C h a p t e r 1: Interactive Dynamic-System Simulation; C h a p t e r 2: A Gallery of Simple Simulation Programs; C h a p t e r 3: Introduction to Control System Simulation; C h a p t e r 4: Function Generatorsand Submodels; C h a p t e r 5: Programming the Experiment Protocol; C h a p t e r 6: Models Using Vectors and Matrices; C h a p t e r 7: Modeling Tricks and Treats; C h a p t e r 8: General-Purpose Mathematics; Appendix: Simulation Accuracy and Integration Techniques; Back cover
Sommario/riassunto	Showing you how to use personal computers for modeling and simulation, Interactive Dynamic-System Simulation, Second Edition provides a practical tutorial on interactive dynamic-system modeling and simulation. It discusses how to effectively simulate dynamical systems, such as aerospace vehicles, power plants, chemical processes, control systems, and physiological systems. Written by a pioneer in simulation, the book introduces dynamic-system models and explains how software for solving differential equations works. After

demonstrating real simulation programs with simple examples, the
author
