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Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	chapter 1 The Process of Mathematical Modeling / Mayer Humi -- chapter 2 Modeling with Ordinary Differential Equations / Mayer Humi -- chapter 3 Solutions of Systems of ODEs / Mayer Humi -- chapter 4 Stability Theory / Mayer Humi -- chapter 5 Bifurcations and Chaos / Mayer Humi -- chapter 6 Perturbations / Mayer Humi -- chapter 7 Modeling with Partial Differential Equations / Mayer Humi -- chapter 8 Solutions of Partial Differential Equations / Mayer Humi -- chapter 9 Variational Principles / Mayer Humi -- chapter 10 Modeling Fluid Flow / Mayer Humi -- chapter 11 Modeling Geophysical Phenomena / Mayer Humi -- chapter 12 Stochastic Modeling / Mayer Humi -- chapter 13 Answers to Problems / Mayer Humi.
Sommario/riassunto	Introduction to Mathematical Modeling helps students master the processes used by scientists and engineers to model real-world problems, including the challenges posed by space exploration, climate change, energy sustainability, chaotic dynamical systems and random processes.