

1. Record Nr.	UNINA9910970871703321
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Titolo	Simulation of ecological and environmental models // by Miguel F. Acevedo
Pubbl/distr/stampa	Boca Raton, FL : , : CRC Press, an imprint of Taylor and Francis, , 2012
ISBN	0-429-10125-2 1-4665-5389-8 1-4665-7568-9
Edizione	[First edition.]
Descrizione fisica	1 online resource (481 p.)
Disciplina	577
Soggetti	Ecology - Mathematical models Environmental sciences - Mathematical models
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Front Cover; Contents; Preface; Acknowledgments; Author; Chapter 1 - Introduction; Chapter 2 - Review of Basic Mathematical Concepts and Introduction to R; Chapter 3 - Exponential Model; Chapter 4 - Model Simulation; Chapter 5 - Model Evaluation; Chapter 6 - Nonlinear Models; Chapter 7 - Stability and Disturbances; Chapter 8 - Sensitivity Analysis, Response Surfaces, and Scenarios; Linear Dynamical Systems; Chapter 10 - Structured Population Models; Chapter 11 - Ecotoxicological Modeling; Chapter 12 - Community Dynamics; Chapter 13 - Ecosystems: Nutrients and Energy Chapter 14 - Aquatic Ecosystems Chapter 15 - Terrestrial Ecosystems: Soils, Plants, and Water; Chapter 16 - Terrestrial Ecosystems: Vegetation Dynamics; Bibliography; Back Cover
Sommario/riassunto	Given the importance of interdisciplinary work in sustainability, Simulation of Ecological and Environmental Models introduces the theory and practice of modeling and simulation as applied in a variety of disciplines that deal with earth systems, the environment, ecology, and human–nature interactions. Based on the author’s many years of teaching graduate and undergraduate students in the United States, Spain, and Latin America, the textbook shows how to implement simulations and analyze the results using an open-source software

platform.
