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Titolo	Encyclopedia of theoretical ecology [[electronic resource] /] / edited by Alan Hastings, Louis J. Gross
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Descrizione fisica	1 online resource (848 p.)
Collana	Encyclopedias of the natural world ; ; no. 4
Altri autori (Persone)	HastingsA <1953-> (Alan) GrossLouis J
Disciplina	577.03
Soggetti	Ecology Electronic books.
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 and index.
Nota di contenuto	Front matter -- CONTENTS -- CONTENTS BY SUBJECT AREA -- CONTRIBUTORS -- GUIDE TO THE ENCYCLOPEDIA -- PREFACE -- Adaptive Behavior and Vigilance -- Adaptive Dynamics -- Adaptive Landscapes -- Age Structure -- Allee Effects -- Allometry and Growth -- Apparent Competition -- Applied Ecology -- Assembly Processes -- Bayesian Statistics -- Behavioral Ecology -- Belowground Processes -- Beverton-Holt Model -- Bifurcations -- Biogeochemistry and Nutrient Cycles -- Birth-Death Models -- Bottom-Up Control -- Branching Processes -- Cannibalism -- Cellular Automata -- Chaos -- Coevolution -- Compartment Models -- Computational Ecology -- Conservation Biology -- Continental Scale Patterns -- Cooperation, Evolution of -- Delay Differential Equations -- Demography -- Difference Equations -- Discounting in Bioeconomics -- Disease Dynamics -- Dispersal, Animal -- Dispersal, Evolution of -- Dispersal, Plant -- Diversity Measures -- Dynamic Programming -- Ecological Economics -- Ecosystem Ecology -- Ecosystem Engineers -- Ecosystem Services -- Ecosystem Valuation -- Ecotoxicology -- Energy Budgets
Sommario/riassunto	This major reference is an overview of the current state of theoretical

ecology through a series of topical entries centered on both ecological and statistical themes. Coverage ranges across scales-from the physiological, to populations, landscapes, and ecosystems. Entries provide an introduction to broad fields such as Applied Ecology, Behavioral Ecology, Computational Ecology, Ecosystem Ecology, Epidemiology and Epidemic Modeling, Population Ecology, Spatial Ecology and Statistics in Ecology. Others provide greater specificity and depth, including discussions on the Allee effect, ordinary differential equations, and ecosystem services. Descriptions of modern statistical and modeling approaches and how they contributed to advances in theoretical ecology are also included. Succinct, uncompromising, and authoritative-a "must have" for those interested in the use of theory in the ecological sciences.