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Titolo	Autecology : organisms, interactions and environmental dynamics // Gimme H. Walter, School of Biological Sciences, The University of Queensland, Brisbane QLD, Australia, Rob Hengeveld, Faculteit der Aard- en Levenswetenschappen, Vrije Universit
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Descrizione fisica	1 online resource (442 p.)
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Soggetti	Ecology - Philosophy Biotic communities
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Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	chapter 1. Introduction : an outline and justification for autecology -- chapter 2. Two alternative approaches in ecology -- chapter 3. Basic ecological processes and the autecological generalization -- chapter 4. Spatio-temporal dynamics : climatic variables and the response rates of organisms -- chapter 5. Environmental matching : individuals, species and scales in ecology -- chapter 6. Environmental response systems of organisms : co-determinants of spatio-temporal dynamics -- chapter 7. Quantifying autecology : survival, reproduction and movement -- chapter 8. Research in ecology : patterns and the scientific exploration and reconstruction of ecological processes -- chapter 9. Organisms across space and over time : deterministic structures, stochastic influences, environmental gradients and risk analysis -- chapter 10. Contrasting the ecological paradigms : principles, related sub-disciplines, general laws and prediction.
Sommario/riassunto	This book spells out the theoretical structure, methodology and philosophy of the science of autecology. The autecological approach focuses on the interactions of individual organisms (and their species-specific adaptations) with the spatio-temporal dynamics of their

environment as a basis for interpreting patterns of diversity and abundance in natural systems. This organism-based approach to ecological interpretation provides a strong alternative to more traditional approaches and relates mechanistically to the underlying disciplines of anatomy, physiology, and behavior. The book includes illustrations, specific examples, graphs, maps, and other diagrams--
