

ECOLOGICAL PROCESSES HANDBOOK

"... presents an overview of the multi-faceted reality of ecosystems. ... a comprehensive vision of ecosystems based on thermodynamics, viewed as a unifying principle which every evolutionary system must obey."

—Stefano Marsili Libelli, Department of Information Engineering, University of Florence, Italy

"... the authors take the reader on a comprehensive journey through the key processes that help one understand ecology—particularly for the application of environmental management. ... The authors bring many years of expertise and experience to this topic, which is evident in the broad, synthetic treatment of the material. ... a valuable resource ..."

—Brian D. Fath, Towson University, Maryland, USA

Ecology is a cross-disciplinary field involving many different aspects of science. Written with this in mind, *Ecological Processes Handbook* introduces ecological processes, ranging from physical and chemical to biological. It provides an overview of a large number of these processes with a focus on quantification—since quantification is a vital component when constructing operational management strategies for the environment.

The book provides clear and detailed, but not too lengthy, definitions, practical examples, and mathematical models used to describe ecological processes for almost all possible processes that are needed in ecology. It is especially useful for modelers. It also details the key ecological processes that must be known in order to understand the world from the book.

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