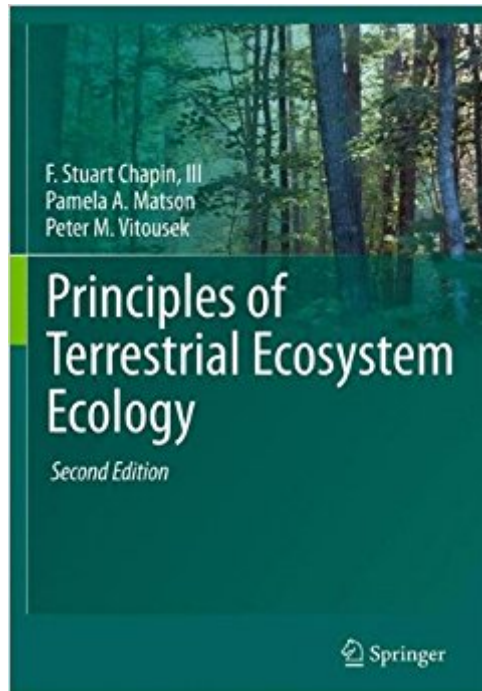




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# Principles Of Terrestrial Ecosystem Ecology



## Synopsis

Features review questions at the end of each chapter; Includes suggestions for recommended reading; Provides a glossary of ecological terms; Has a wide audience as a textbook for advanced undergraduate students, graduate students and as a reference for practicing scientists from a wide array of disciplines

## Book Information

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Average Customer Review: 4.4 out of 5 stars 28 customer reviews

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## Customer Reviews

Reviews of the first edition: "This textbook includes 16 chapters, each ending with a summary, review questions and references to additional readings. It is especially characterized by the great importance (250 pp.) which is attributed to abiotic aspects of ecosystem ecology and to production processes as well as nutrient cycling. All these chapters are structured in an excellent and well organized way. Altogether, the authors have well succeeded in writing a comprehensive textbook, mainly for graduate students." (Angelika Schwabe, *Phytocoenologia*, Vol. 34 (3), 2004) "This comprehensive textbook outlines the central processes that characterize terrestrial ecosystems, tracing the flow of water, carbon, and nutrients from their abiotic origins to their cycles through plants, animals, and decomposer organisms. This book synthesizes current advances in ecology with established theory to offer a complete survey of ecosystem pattern and process in the terrestrial environment. It is suitable for use in all courses on ecosystem ecology. Resource managers, land use managers, and researchers will also welcome its thorough presentation of ecosystem essentials." (Ethology, Ecology & Evolution, Vol. 15 (4), 2003) From the reviews of the second edition: "An outstanding textbook which, after definitions, sets the stage with primers on

Earth's climate system and geological processes. What follows is a magisterial and comprehensive account of the movements of water, energy, carbon and nutrients through natural systems. The authors delve into the finer detail and explain how biological processes can have important modulating effects through space and time. The book is well written throughout and punctuated with excellent colour illustrations; no-one from undergraduates to established researchers can fail to learn something from it. (Frontiers of Biogeography, Vol. 3 (3), 2011)

Humans have directly modified half of the ice-free terrestrial surface and use 40% of terrestrial production. We are causing the sixth major extinction event in the history of life on Earth. With the Earth's climate, flora, and fauna changing rapidly, there is a pressing need to understand terrestrial ecosystem processes and their sensitivity to environmental and biotic changes. This book offers a framework to do just that. Ecosystem ecology regards living organisms, including people, and the elements of their environment as components of a single integrated system. The comprehensive coverage in this textbook examines the central processes at work in terrestrial ecosystems, including their freshwater components. It traces the flow of energy, water, carbon, and nutrients from their abiotic origins to their cycles through plants, animals, and decomposer organisms. As well as detailing the processes themselves, the book goes further to integrate them at various scales of magnitude—those of the ecosystem, the wider landscape and the globe. It synthesizes recent advances in ecology with established and emerging ecosystem theory to offer a wide-ranging survey of ecosystem patterns and processes in our terrestrial environment. Featuring review questions at the end of each chapter, suggestions for further reading, and a glossary of ecological terms, *Principles of Terrestrial Ecosystem Ecology* is a vitally relevant text suitable for study in all courses in ecosystem ecology. Resource managers and researchers in many fields will welcome its thorough presentation of ecosystem essentials.

I am taking this class at UC Berkeley and this is the required text. As a senior, ready to graduate in Environmental Sciences, I find this book to be very lucid and helpful. Thank you for writing such an awesome textbook that neither dumbs down the material nor makes it more difficult than it needs to be. Great writing! Anyone interested in the basics of terrestrial ecosystem ecology or needing a review should buy this book. I will happily keep it on my shelf as a reference for many years to come.

This was an assigned reading for a graduate course I took. The book had a wonderful format and

was easy to follow. I liked the follow up questions at the end of each chapter to test your knowledge on what you finished reading. If you enjoy ecology this is a good general book that covers a variety of topics.

An excellent scientific book. The amount and quality of information is superb. The index, bibliography, references and illustrations give this book an intense depth of knowledge about all the subjects pertaining to environmental science and ecosystems. It shows how the interdependence and symbiotic relationships of many different subsystems in a complex ecosystem are mapped out. A good example is on page 216 where the "net ecosystem carbon balance" is illustrated.

Book came as "new" it seemed. When I took it out of the box it looked as if someone took an xacto knife and tried to cut the back cover off. I tried taping and gluing the cover back on which was ok. The chapters are informative and easy to follow. Had to buy for a college class.

Nice printing (color), good conditions (new), and what I expected. Maybe it was a little bit damaged during the transport, but nothing important.

Great book in great condition

I love it!

The book came in perfect condition just as described. Thank you!

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