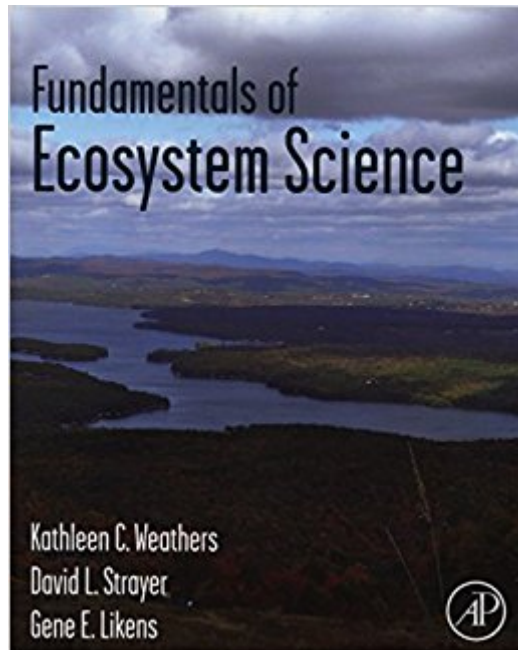




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# Fundamentals Of Ecosystem Science



## Synopsis

Fundamentals of Ecosystem Science provides a compact and comprehensive introduction to modern ecosystem science. This book covers major concepts of ecosystem science, biogeochemistry, and energetics. It addresses, contrasts, and compares both terrestrial and aquatic ecosystems. It combines general lessons, concepts, frameworks, and challenges in highly accessible synthesis chapters. It presents firsthand case studies, written by leaders in the field, offering personal insights into how adopting an ecosystem approach led to innovations, new understanding, management changes, and policy solutions. This book is ideal for advanced undergraduate and graduate students who have had a general biology course, but not further training in ecosystems as well as researchers and professionals in ecology and environmental sciences. Addresses, contrasts, and compares both terrestrial and aquatic ecosystems Combines general lessons, concepts, frameworks, and challenges in highly accessible synthesis chapters Presents firsthand case studies, written by leaders in the field, offering personal insights into how adopting an ecosystem approach led to innovations, new understanding, management changes, and policy solutions

## Book Information

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## Customer Reviews

"Highly recommended as a textbook, Fundamentals is certain to delight the reader with striking stories on the connection between habitat fragmentation and Lyme disease, and other intriguing examples that leave us marveling at the complexity of ecological interactions and remind us why we

choose to work in this field." --The Journal of Wildlife Management, 2014 "Via multiple approaches (e.g., experimental, theoretical, cross-system comparisons), contributors discuss the energetics and biochemical branches of this rapidly evolving science, and present case studies illustrating how ecosystem science can identify and control problems in diverse ecosystems." --Reference and Research Book News, 2013 "I have been searching for a book like this for my ecosystem ecology class. The tone is right-on-target, the examples are apropos, and it is clear that these chapters are written for students as opposed to researchers, which is a significant plus." --Dr. Robert Hall, University of Wyoming "I found the chapters in Fundamentals of Ecosystem Science to be well-organized and well-written. Students and teachers alike respond well to them. The level of detail is about right (not too dense), and the subject matter is presented in an interesting and engaging way." --Dr. Clifford Ochs, University of Mississippi "The book is very readable and engaging, and it communicates both a general understanding of the topics and current state of the knowledge. The incorporation of both terrestrial and aquatic systems is a great contribution since most ecosystem science textbooks are focused on terrestrial or aquatic systems." --Dr. Mary Arthur, University of Kentucky "A refreshing approach that includes specific methods, examples and perspectives from both aquatic and terrestrial ecosystems. It provides timely and motivating syntheses of concepts and approaches for addressing current challenges to earth's ecosystem functions." --Dr. Amy Rosemond, Odum School of Ecology, University of Georgia

Ecosystem science has developed into a major part of contemporary ecology, and it is now applied to diagnose and solve a wide range of important environmental problems. Fundamentals of Ecosystem Science provides a compact and comprehensive introduction to modern ecosystem science. Written by a group of experts, this book covers major concepts of ecosystem science, biogeochemistry, and energetics. Key features: Addresses, contrasts, and compares both terrestrial and aquatic ecosystems Combines general lessons, concepts, frameworks, and challenges in highly accessible synthesis chapters Presents firsthand case studies, written by leaders in the field, offering personal insights into how adopting an ecosystem approach led to innovations, new understanding, management changes, and policy solutions

was required for one of my classes. My professor actually helped write this book so she had lots of knowledge about it. great book. most chapters are easy to understand

The book arrived quickly and was brand new. Maybe new isn't a category in used books? The book

itself is highly recommended for anyone wanting to learn about ecosystem science.

I bought this book for an environmental science class I'm taking at Portland State University.

There's A LOT of fluff!

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