



Population Ecology: First Principles, Second Edition

By John H. Vandermeer, Deborah E. Goldberg

Download now

Read Online →

Population Ecology: First Principles, Second Edition By John H. Vandermeer, Deborah E. Goldberg

Ecology is capturing the popular imagination like never before, with issues such as climate change, species extinctions, and habitat destruction becoming ever more prominent. At the same time, the science of ecology has advanced dramatically, growing in mathematical and theoretical sophistication. Here, two leading experts present the fundamental quantitative principles of ecology in an accessible yet rigorous way, introducing students to the most basic of all ecological subjects, the structure and dynamics of populations.

John Vandermeer and Deborah Goldberg show that populations are more than simply collections of individuals. Complex variables such as distribution and territory for expanding groups come into play when mathematical models are applied. Vandermeer and Goldberg build these models from the ground up, from first principles, using a broad range of empirical examples, from animals and viruses to plants and humans. They address a host of exciting topics along the way, including age-structured populations, spatially distributed populations, and metapopulations.

This second edition of *Population Ecology* is fully updated and expanded, with additional exercises in virtually every chapter, making it the most up-to-date and comprehensive textbook of its kind.

- Provides an accessible mathematical foundation for the latest advances in ecology
- Features numerous exercises and examples throughout
- Introduces students to the key literature in the field
- The essential textbook for advanced undergraduates and graduate students
- An online illustration package is available to professors

↓ [Download Population Ecology: First Principles, Second Edition ...pdf](#)

 [Read Online Population Ecology: First Principles, Second Edi ...pdf](#)

Population Ecology: First Principles, Second Edition

By John H. Vandermeer, Deborah E. Goldberg

Population Ecology: First Principles, Second Edition By John H. Vandermeer, Deborah E. Goldberg

Ecology is capturing the popular imagination like never before, with issues such as climate change, species extinctions, and habitat destruction becoming ever more prominent. At the same time, the science of ecology has advanced dramatically, growing in mathematical and theoretical sophistication. Here, two leading experts present the fundamental quantitative principles of ecology in an accessible yet rigorous way, introducing students to the most basic of all ecological subjects, the structure and dynamics of populations.

John Vandermeer and Deborah Goldberg show that populations are more than simply collections of individuals. Complex variables such as distribution and territory for expanding groups come into play when mathematical models are applied. Vandermeer and Goldberg build these models from the ground up, from first principles, using a broad range of empirical examples, from animals and viruses to plants and humans. They address a host of exciting topics along the way, including age-structured populations, spatially distributed populations, and metapopulations.

This second edition of *Population Ecology* is fully updated and expanded, with additional exercises in virtually every chapter, making it the most up-to-date and comprehensive textbook of its kind.

- Provides an accessible mathematical foundation for the latest advances in ecology
- Features numerous exercises and examples throughout
- Introduces students to the key literature in the field
- The essential textbook for advanced undergraduates and graduate students
- An online illustration package is available to professors

Population Ecology: First Principles, Second Edition By John H. Vandermeer, Deborah E. Goldberg **Bibliography**

- Sales Rank: #1253154 in Books
- Brand: Brand: Princeton University Press
- Published on: 2013-08-25
- Original language: English
- Number of items: 1
- Dimensions: 9.90" h x .80" w x 6.90" l, 1.25 pounds
- Binding: Paperback
- 288 pages

 [Download Population Ecology: First Principles, Second Edition ...pdf](#)

 [Read Online Population Ecology: First Principles, Second Edition ...pdf](#)

Download and Read Free Online Population Ecology: First Principles, Second Edition By John H. Vandermeer, Deborah E. Goldberg

Editorial Review

Review

Praise for first edition: "Superbly crafted."--*Choice*

Praise for first edition: "Vandermeer and Goldberg do an admirable job of explaining the ecological meaning and assumptions behind all of the mathematical results presented. They include many figures that illustrate their points clearly and these are accompanied with detailed verbal explanations."--**Helen M. Regan, *Ecology***

"As population ecology continues to grow and develop as a discipline, this book will serve as a useful text for undergraduate courses in population ecology or quantitative techniques, and will also serve as a handy resource for professionals."--**Tyler M. Harms, *Journal of Wildlife Management***

About the Author

John H. Vandermeer is the Asa Gray Distinguished University Professor of Ecology and Evolutionary Biology at the University of Michigan. Deborah E. Goldberg is the Elzada U. Clover Collegiate Professor of Ecology and Evolutionary Biology at the University of Michigan.

Users Review

From reader reviews:

Margaret Head:

Why don't make it to be your habit? Right now, try to prepare your time to do the important work, like looking for your favorite book and reading a guide. Beside you can solve your trouble; you can add your knowledge by the book entitled Population Ecology: First Principles, Second Edition. Try to stumble through book Population Ecology: First Principles, Second Edition as your friend. It means that it can to get your friend when you experience alone and beside regarding course make you smarter than previously. Yeah, it is very fortunated for you personally. The book makes you much more confidence because you can know anything by the book. So , we need to make new experience in addition to knowledge with this book.

Blanche Ball:

What do you think of book? It is just for students since they're still students or it for all people in the world, exactly what the best subject for that? Merely you can be answered for that issue above. Every person has several personality and hobby for each and every other. Don't to be obligated someone or something that they don't want do that. You must know how great as well as important the book Population Ecology: First Principles, Second Edition. All type of book can you see on many options. You can look for the internet methods or other social media.

Eileen Moore:

As people who live in the particular modest era should be up-date about what going on or info even knowledge to make these keep up with the era that is certainly always change and make progress. Some of you maybe can update themselves by examining books. It is a good choice for yourself but the problems coming to an individual is you don't know what kind you should start with. This Population Ecology: First Principles, Second Edition is our recommendation to help you keep up with the world. Why, because this book serves what you want and wish in this era.

Beverly Thomas:

The actual book Population Ecology: First Principles, Second Edition will bring someone to the new experience of reading a new book. The author style to describe the idea is very unique. When you try to find new book to read, this book very suitable to you. The book Population Ecology: First Principles, Second Edition is much recommended to you you just read. You can also get the e-book in the official web site, so you can more easily to read the book.

**Download and Read Online Population Ecology: First Principles,
Second Edition By John H. Vandermeer, Deborah E. Goldberg
#K7MHO2T6P0C**

Read Population Ecology: First Principles, Second Edition By John H. Vandermeer, Deborah E. Goldberg for online ebook

Population Ecology: First Principles, Second Edition By John H. Vandermeer, Deborah E. Goldberg Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Population Ecology: First Principles, Second Edition By John H. Vandermeer, Deborah E. Goldberg books to read online.

Online Population Ecology: First Principles, Second Edition By John H. Vandermeer, Deborah E. Goldberg ebook PDF download

Population Ecology: First Principles, Second Edition By John H. Vandermeer, Deborah E. Goldberg Doc

Population Ecology: First Principles, Second Edition By John H. Vandermeer, Deborah E. Goldberg Mobipocket

Population Ecology: First Principles, Second Edition By John H. Vandermeer, Deborah E. Goldberg EPub