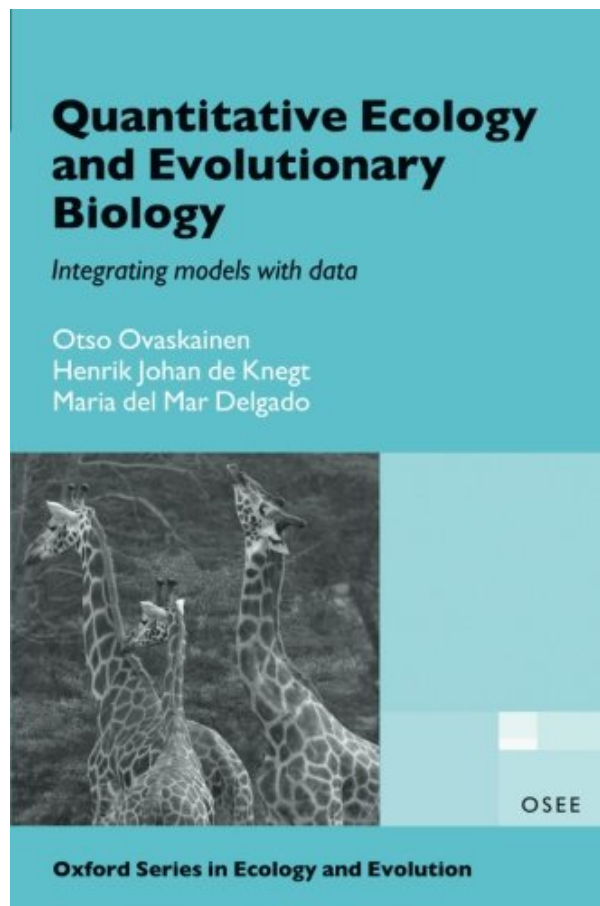


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This novel, interdisciplinary text achieves an integration of empirical data and theory with the aid of mathematical models and statistical methods. The emphasis throughout is on spatial ecology and evolution, especially on the interplay between environmental heterogeneity and biological processes. The book provides a coherent theme by interlinking the modelling approaches used for different subfields of spatial ecology: movement ecology, population ecology, community ecology, and genetics and evolutionary ecology (each being represented by a separate chapter). Each chapter starts by describing the concept of each modelling approach in its biological context, goes on to present the relevant mathematical models and statistical methods, and ends with a discussion of the benefits and limitations of each approach. The concepts and techniques discussed throughout the book are illustrated throughout with the help of empirical examples.

This is an advanced text suitable for any biologist interested in the integration of empirical data and theory in spatial ecology/evolution through the use of quantitative/statistical methods and mathematical models. The book will also be of relevance and use as a textbook for graduate-level courses in spatial ecology, ecological modelling, theoretical ecology, and statistical ecology.

- Sales Rank: #2066424 in Books
- Published on: 2016-07-12
- Released on: 2016-07-12
- Original language: English
- Number of items: 1
- Dimensions: 6.10" h x .60" w x 9.10" l, .0 pounds
- Binding: Paperback
- 352 pages

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One of the best (ACTUALIZED) introductory books on spatial ecology

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This is a Must-Read book for all ecologists working with spatially explicit problems. In my opinion, since space is an inherent condition in which ecological processes take place, ecologists must have at least a basic knowledge of the present paradigms and basic methods, which are all included in this book. It would be a perfect textbook, not only for graduate-level but also for undergraduate-level courses. Some basic quantitative knowledge is required, which is very briefly covered in the Appendices A and B, and must be studied with other good textbook as Hobbs & Hooten (2015: Bayesian Models: A Statistical Primer for Ecologists) which is another must- and easy-to-read book.

Pros: - The book is well organized.

- Has a good balance of theory and methods.
- Has good and simple examples.
- Has both, classic and recent references
- Keeps things simple.

Cons: - Some secondary paradigms are not present or even commented (Maybe it was the authors' decision to keep the book short).

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