



Fundamentals of Ecological Modelling: Applications in Environmental Management and Research (Developments in Environmental Modelling)

S.E. Jorgensen

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Fundamentals of Ecological Modelling: Applications in Environmental Management and Research, Fourth Edition, provides a comprehensive discussion of the fundamental principles of ecological modeling. The first two editions of this book (published in 1986 and 1994) focused on the roots of the discipline the four main model types that dominated the field 30-40 years ago: (1) dynamic biogeochemical models; (2) population dynamic models; (3) ecotoxicological models; and (4) steady-state biogeochemical and energy models. The third edition focused on the mathematical formulations of ecological processes that are included in ecological models.

This fourth edition uses the four model types previously listed as the foundation and expands the latest model developments in spatial models, structural dynamic models, and individual-based models. As these seven types of models are very different and require different considerations in the model development phase, a separate chapter is devoted to the development of each of the model types. Throughout the text, the examples given from the literature emphasize the application of models for environmental management and research.

- Presents the most commonly used model types with a step-by-step outline of the modeling procedure used for each
- Shows readers through an illustrated example of how to use each model in research and management settings
- New edition is revised to include only essential theory with a focus on applications
- Includes case studies, illustrations, and exercises (case study of an ecological problem with full illustration on how to solve the problem)

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