

Handbook Of Ecological Models Used In Ecosystem And Environmental Management Applied Ecology And Environmental Management

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It is estimated that roughly 1000 new ecological and environmental models join the ranks of the scientific literature each year. The international peer-reviewed literature reports some 20,000 new models spanning the period from 1970-2010. Just to keep abreast of the field it is necessary to design a handbook of models that doesn't merely list them, but rather draws the state-of-the-art development of models for ecosystem and environmental management. Published first in 1996, Handbook of Models Applied in Ecosystem and Environmental Management applies precisely this approach to review current models applied in ecosystem-wide as well as environmentally specific management. Divided into two sections, the first section focuses on models of common ecosystems, leaving out only the most rare and extreme. Chapters cover coastal and marine ecosystems, wetlands, and estuaries; lake models and those general considerations valid for all freshwater ecosystems; grasslands, forests, and general features of terrestrial ecosystems; and managed ecosystems including agriculture and aquaculture as well as wastewater treatment systems. Section II devotes attention to specific environmental problems. It begins with a look at "out of balance" problems such as eutrophication models, models of oxygen depletion, and acidification models in water pollution. Further chapters cover pollution by toxic substances, namely, heavy metal and organic toxins; global warming; fire and the spread of fire, and air pollution and the unique considerations of aerodynamics. Supported with extensive references, Handbook of Models Applied in Ecosystem and Environmental Management provides a solid overview of the models currently in use for the management and homeostasis of whole ecosystems as well as for the solution of today's most pressing environmental problems.

With descriptions of hundreds of the most important environmental and ecological models, this handbook is a unique and practical reference source. The Handbook of Environmental and Ecological Modeling is ideal for those working in environmental modeling, including regulators and managers who wish to understand the models used to make assessments. Overviews of more than 360 models are easily accessed in this handbook, allowing readers to quickly locate information they need about models available in a given ecosystem. The material in the Handbook of Environmental and Ecological Modeling is logically arranged according to ecosystem. Each of the sixteen chapters of the handbook covers a particular ecosystem, and includes not only the descriptions of the models, but also an overview of the state-of-the-art in modeling for that particular ecosystem. A summary of the spectrum of available models is also provided in each chapter. The extensive table of contents and the easy-to-use index put materials immediately at your fingertips.

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Mathematical modelling is an essential tool in present-day ecological research. Yet for many ecologists it is still problematic to apply modelling in their research. In our experience, the major problem is at the conceptual level: proper understanding of what a model is, how ecological relations can be translated consistently into mathematical equations, how models are solved, steady states calculated and interpreted. Many textbooks jump over these conceptual hurdles to dive into detailed formulations or the mathematics of solution. This book attempts to fill that gap. It introduces essential concepts for mathematical modelling, explains the mathematics behind the methods, and helps readers to implement models and obtain hands-on experience. Throughout the book, emphasis is laid on how to translate ecological questions into interpretable models in a practical way. The book aims to be an introductory textbook at the undergraduate-graduate level, but will also be useful to seduce experienced ecologists into the world of modelling. The range of ecological models treated is wide, from Lotka-Volterra type of principle-seeking models to environmental or ecosystem models, and including matrix models, lattice models and sequential decision models. All chapters contain a concise introduction into the theory, worked-out examples and exercises. All examples are implemented in the open-source package R, thus taking away problems of software availability for use of the book. All code used in the book is available on a dedicated website.

The book gives a comprehensive overview of all available types of ecological models. It is the first book of its kind that gives an overview of different model types and will be of interest to all those involved in ecological and environmental modelling and ecological informatics.

Social problems in many domains, including health, education, social relationships, and the workplace, have their origins in human behavior. The documented links between behavior and social problems have compelled governments and organizations to prioritize and mobilize efforts to develop effective, evidence-based means to promote adaptive behavior change. In recognition of this impetus, The Handbook of Behavior Change provides comprehensive coverage of contemporary theory, research, and practice on behavior change. It summarizes current evidence-based approaches to behavior change in chapters authored by leading theorists, researchers, and practitioners from multiple disciplines, including psychology, sociology, behavioral science, economics, philosophy, and implementation science. It is the go-to resource for researchers, students, practitioners, and policy makers looking for current knowledge on behavior change and guidance on how to develop effective interventions to change behavior.

This handbook focuses on the enormous literature applying statistical methodology and modelling to environmental and ecological processes. The 21st century statistics community has become increasingly interdisciplinary, bringing a large collection of modern tools to all areas of application in environmental processes. In addition, the environmental community has substantially increased its scope of data collection including observational data, satellite-derived data, and computer model output. The resultant impact in this latter community has been substantial; no longer are simple regression and analysis of variance methods adequate. The contribution of this handbook is to assemble a state-of-the-art view of this interface. Features: An internationally regarded editorial team. A distinguished collection of contributors. A thoroughly contemporary treatment of a substantial interdisciplinary interface. Written to engage both statisticians as well as quantitative environmental researchers. 34 chapters covering methodology, ecological processes, environmental exposure, and statistical methods in climate science.

Addressing the basic concepts of ecological modelling, Jorgensen provides the user with a tool which can assist in the understanding of what various model types/network calculations can do, as well as outlining when to use which type as a tool to solve a specific problem.

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