

Ecological Modeling for Resource Management



Virginia H. Dale
Editor

Ecological Modeling For Resource Management

Janusz Kindler, Clifford S. Russell



Ecological Modeling For Resource Management:

Ecological Modeling for Resource Management Virginia H. Dale, 2006-04-18 This book will serve as a readable introduction to ecological modeling for people involved in resource management and will also review models for specific applications of interest to more experienced modelers Successful uses of ecological models as well as discussions of important issues in modeling are addressed The authors of this volume hope to close the gap between the state of the art in ecological modeling and the state of the practice in the use of models in management decision making

Ecological Modeling for Resource Management Virginia H. Dale, 2014-01-15

Ecological Modeling Clifford S. Russell, 2015-09-25 This volume originally published in 1975 grew out of Resources for the Future's involvement as a consultant to the Marine Ecosystem Analysis programme management within the National Oceanic and Atmospheric Agency Here researchers look at the state of the art in aquatic ecological modelling in a resource management context Although the aim of the research in this volume is specific the models used can be applied in broader contexts and provide conceptual frameworks for regional residuals environmental quality management and other ecological modelling This title is suitable for students interested in Environmental Studies

[Ecological Modeling in a Resource Management Framework](#) Clifford S. Russell, United States. National Oceanic and Atmospheric Administration, 1975

Ecological Modeling in a Resource Management Framework : the Proceedings of a Symposium [held at Brookings Institution, Washington, 10-12 September, 1974] c. s. editor. u Russell, 1975

Ecological Modeling William E. Grant, Todd M. Swannack, 2011-08-26 Ecological Modeling A Commonsense Approach to Theory and Practice explores how simulation modeling and its new ecological applications can offer solutions to complex natural resource management problems This is a practical guide for students teachers and professional ecologists Examines four phases of the modeling process conceptual model formulation quantitative model specification model evaluation and model use Provides useful building blocks for constructing systems simulation models Includes a format for reporting the development and use of simulation models Offers an integrated systems perspective for students faculty and professionals Features helpful insights from the author gained over 30 years of university teaching I can strongly recommend the book as textbook for all courses in population dynamic modeling particularly when the course is planned for the second or third year of a bachelor study in ecology environmental science or ecological engineering It uncovers very clearly for the readers the scientific idea and thinking behind modeling and all the necessary steps in the development of models Ecological Modeling Journal 2009

Selected Water Resources Abstracts, 1977-05

Applying Ecosystem and Landscape Models in Natural Resource Management Robert E. Keane, 2019-08-15 Managing today's lands is becoming an increasingly difficult task Complex ecological interactions across multiple spatiotemporal scales create diverse landscape responses to management actions that are often novel counter intuitive and unexpected To make matters worse exotic invasions human land use and global climate change complicate this

complexity and make past observational ecological studies limited in application to the future Natural resource professionals can no longer rely on empirical data to analyze alternative actions in a world that is rapidly changing with few historical analogs New tools are needed to synthesize the high complexity in ecosystem dynamics into useful applications for land management Some of the best new tools available for this task are ecological and landscape simulation models However many land management professionals and scientists have little expertise in simulation modeling and the costs of training these people will probably be exorbitantly high because most ecosystem and landscape models are exceptionally complicated and difficult to understand and use for local applications This book was written to provide natural resource professionals with the rudimentary knowledge needed to properly use ecological models and then to interpret their results It is based on the lessons learned from a career spent modeling ecological systems It is intended as a reference for novice modelers to learn how to correctly employ ecosystem landscape models in natural resource management applications and to understand subsequent modeling results

Modeling in Natural Resource Management Tanya M. Shenk, Alan B. Franklin, 2001 This work covers topics in natural resource modelling to explain how they can be have been and should be used in making decisions about the management of natural resources It aims to give managers and students the tools they need to assess and apply models effectively

Ecological Modeling of Quality of Life Among Middle-aged Husbands and Wives Meesok Park Lee, 1992

The Science and Management of Uncertainty Bruce G. Marcot, 2020-11-26 Uncertainty can take many forms can be represented in many ways and can have important implications in decision making and policy development This book provides a rigorous scientific framework for dealing with uncertainty in real world situations and provides a comprehensive study of concepts measurements and applications of uncertainty in ecological modeling and natural resource management The focus of this book is on the kinds and implications of uncertainty in environmental modeling and management with practical guidelines and examples for successful modeling and risk analysis in the face of uncertain conditions and incomplete information Provided is a clear classification of uncertainty methods for measuring modeling and communicating uncertainty practical guidelines for capturing and representing expert knowledge and judgment explanations of the role of uncertainty in decision making a guideline to avoiding logical fallacies when dealing with uncertainty and several example cases of real world ecological modeling and risk analysis to illustrate the concepts and approaches Case topics provide examples of structured decision making statistical modeling and related topics A summary provides practical next steps that the reader can take in analyzing and interpreting uncertainty in real world situations Also provided is a glossary and a suite of references

Journal, 1977-06 *Ecological Simulation Primer* Gordon L. Swartzman, S. P. Kaluzny, 1987

Energy and Environmental Stress in Aquatic Systems James H. Thorp, Whit Gibbons, 1978

Rehabilitation Education, 2001 *Proceedings of the Ecological Society of Australia* Ecological Society of Australia, 1981

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New Mexico Water Resources Research Institute,1990

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