Quantitative ecological theory - an introduction to basic models

Croom Helm - Quantitative Ecological Theory


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This book is concerned with the mathematical basics of ecological theory. It introduces the reader to the construction and analysis of models prevalent in current theory. The book is not intended as a general text, but more as a manual, with relevant background information, on how to construct and develop models in a mathematical way. Of the major theoretical 'issues' in ecology, the problems of ecosystem stability, co-existence of competitors, chaos, predator-prey cycles, and multiple stable-states are all considered, as they arise naturally from discussion of particular models. Some basic grounding in ecology, population biology and mathematics is assumed on the part of readers, who are assumed to be mainly students taking advanced courses in ecology.

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Description: -
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Judaism -- History -- Post-exilic period, 586 B.C.-210 A.D.
Apocalyptic literature -- History and criticism.
Apocryphal books (Old Testament) -- Criticism, interpretation, etc.
Bible -- Criticism, interpretation, etc.
Ethiopic book of Enoch. -- N.T.
Nickelsburg, George W. E., -- 1934-
Church and state -- Germany -- History -- 1933-1945.
Christian union -- Germany.
Wurm, Theophil, 1868-1953.
Judges -- Selection and appointment.
Judges -- Selection and appointment -- United States.
Large type books
Witches -- Fiction
Supernatural -- Fiction
Large type books
Pottery, Roman.
Pottery, Hellenistic.
Pottery, Greek.
Missions -- California.
Spanish mission buildings -- California.
Muḥammad, -- Prophet, -- d. 632,
Ecology -- Mathematical models.Quantitative ecological theory - an introduction to basic models
-Quantitative ecological theory - an introduction to basic models
Notes: Includes bibliography and index.
This edition was published in 1987

Tags: #What #is #a #planning #model? #An #introduction #to #PRECEDE

Filesize: 37.22 MB

Using Ecological Modeling to Enhance Instruction in Population Dynamics and to Stimulate Scientific Thinking

Consistent treatment from classical to modern Bayes Underlying distribution theory to algorithm development Many examples and applications Does not assume statistical background Extensive supporting appendixes Accompanying lab manual in R In summary, Models for Ecological Data is an important text for those interested in ecological problems, which require computationally intensive methods.

What is a planning model? An introduction to PRECEDE

Usually it is preferable to use as much a priori information as possible to make the model more accurate. It is therefore usually appropriate to make some approximations to reduce the model to a sensible size. Depending on the context, an objective function is also known as an index of performance, as it is some measure of interest to the user.

Using Ecological Modeling to Enhance Instruction in Population Dynamics and to Stimulate Scientific Thinking

Evolution in microorganisms can occur rapidly, particularly under strong selective pressures, potentially leading to convergence of ecological and evolutionary timescales. This is due in large part to the difficulties inherent in observing microorganisms in nature, which often have few distinguishing morphological features and often cannot be cultivated in the laboratory. For example, as populations within the community tend to age, newer and younger families can work with older residents by sharing information and creating a more holistic environment for all community members.

Models for Ecological Data: An Introduction

The definition of linearity and nonlinearity is dependent on context, and linear models may have nonlinear expressions in them. Big questions, small

worlds: microbial model systems in ecology. Without screening large numbers of clones, sampling low-abundance species remains a matter of chance.

Using Ecological Modeling to Enhance Instruction in Population Dynamics and to Stimulate Scientific Thinking

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- Ch‘ŏngmun hŏja chinam p‘yŏn (oe)