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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.

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Many texts on ecological models jump to describing either particular relations or computational results, without treating in

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detail the conceptual and mathematical basis of many steps in modelling: why set up models, what are basic conceptual models, how do conservation laws come in, how are models solved, what are steady states.

A Practical Guide to Ecological Modelling | SpringerLink

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Platform. 2008. Abstract. 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 ...

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<http://www.springer.com/life+sciences/ecology/book/978-1-4020-8623-6> .

R for Science – A practical guide to ecological modelling ...

Abstract. Understanding and predicting the ecological consequences of different management alternatives is becoming increasingly important to support environmental management decisions.

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ECOLOGICAL MODELLING - Elsevier

An ecosystem model is an abstract, usually mathematical, representation of an ecological system (ranging in scale from an individual population, to an ecological community, or even an entire biome), which is studied to better understand the real system.. Using data gathered from the field, ecological relationships—such as the relation of sunlight and water availability to photosynthetic rate ...

Ecosystem model - Wikipedia

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Core Principles of the Ecological Model | Models and ...
plines like mathematical ecology, that are essential to mastering environmental modelling techniques. Using model predictions in a guarded and precise manner is part of the scientific integrity of modellers. Where environmental issues have entered the political mainstream it is not always

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Abstract. This article discusses the application of the ecological model to formative research in a practical setting of a training program developed for the Child Growth Monitoring Project of the New York State WIC program. The ecological model was selected to guide the formative research because it offered a concrete framework to account for the reciprocal interaction of behavior and environment.

Theory and practice: applying the ecological model to ...

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Ecology | Springer

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Introducing the Human Development-EcoLogic Model: A Practical Approach for Outreach and Extension Education Programs.
Abstract. To reach the goals of outreach and Extension programs, a program planning model is essential. A new model is presented to ensure program success; it is the human development-ecoLogic model (HD-ELM).

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Introducing the Human Development-EcoLogic Model: A ...

Figures, data sets and examples from the book "A practical guide to ecological modelling - using R as a simulation platform" by Karline Soetaert and Peter MJ Herman (2009). Springer, 372 pp. <http://www.springer.com/life+sciences/ecology/book/978-1-4020-8623-6>

All figures from chapter x can be generated by demo (chapx), where $x = 1$ to 11.

ecolMod: A practical guide to ecological modelling - using ...

Theoretical ecology is the scientific discipline devoted to the study of ecological systems using theoretical methods such as simple conceptual models, mathematical models, computational simulations, and advanced data analysis.

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