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A Practical Guide to Ecological Modelling: Using R as a ...

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

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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. Ecological models could contribute to such predictions, but in the past this was often not the case. Ecological models are often developed within research projects but are rarely used for practical applications.

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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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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

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.

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

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Simulation Platform" by Karline Soetaert and Peter M.J. 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.

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