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## **Spatial Ecology Via Reaction Diffusion**

\* Provides a unified and coherent account of methods developed to study spatial ecology via reaction-diffusion models \*

Provides the reader with the tools needed to construct and interpret models

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Many ecological phenomena involve space as well as time and arise from a combination of random and deterministic processes. Such phenomena include the effects of habitat fragmentation, which is a common result of human activity and a major problem in

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biological conservation.

Diffusion

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Robert Stephen

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Cantrell is the author of Spatial Ecology via Reaction-Diffusion Equations, published by Wiley. Chris Cosner is the author of Spatial Ecology via Reaction-Diffusion Equations, published by Wiley. --This text refers to the hardcover edition.

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It follows from the



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regularity theory of parabolic partial differential equations that in the state space bounded orbits are pre-compact, hence the semi-flow will have a compact attractor, and the ...

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D. Alonso, F.  
Bartumeus, and J.  
Catalan. Mutual  
interference between  
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In this paper, a novel multi-group SEIR epidemic model with both age structure and spatial diffusion is constructed for the first time ever to study the transmission dynamics of infectious diseases. We first analytically study the positivity, boundedness, existence and uniqueness of solution

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and the existence of compact global attractor of the ...

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Many ecological phenomena may be modelled using apparently random processes involving space (and possibly time). Such phenomena are classified as spatial in their nature and include all aspects of

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pollution. This book addresses the problem of modelling spatial effects in ecology and population...

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Abstract. The goal of this survey is to introduce applications of reaction diffusion equations in biology, focusing on the effect of environmental

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spatial heterogeneity on population dynamics, evolution, and disease spread. On one hand we develop and analyze a series of reaction diffusion models which integrate spatial ecology, evolution and disease spread, hoping to understand the underlying biological processes and mechanisms.

**Some reaction**

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