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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 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 diffusion models in spatial ecology

More recently, reaction-diffusion models have been used to describe spatiotemporal phenomena in disciplines other than ecology, such as physics, chemistry, and biology (see [3, 6,12,13,16]). For...

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Reaction-diffusion equations are widely used as models for spatial effects in ecology. They support three important types of ecological phenomena: the existence of a minimal patch size necessary to sustain a population, the propagation of wavefronts corresponding to biological invasions, and the formation of spatial patterns in the distributions of populations in homogeneous environments.

Reaction–Diffusion Equations and Ecological Modeling ...

Spatial ecology via reaction-diffusion equations Robert Stephen Cantrell, Chris Cosner 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 pollution.

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Selected topics on reaction-diffusion-advection models from spatial ecology King-Yeung Lam, Shuang Liu, Yuan Lou We discuss the effects of movement and spatial heterogeneity on population dynamics via reaction-diffusion-advection models, focusing on the persistence, competition, and evolution of organisms in spatially heterogeneous environments.

[2004.07978] Selected topics on reaction-diffusion ...

Spatial Ecology via Reaction-Diffusion Equations (with Chris Cosner), John Wiley and Sons Computational and Mathematical Biology Series, John Wiley and Sons, Chichester, U.K., October 2003, 411 pages. Spatial Ecology (co-edited with Chris Cosner and Shigui Ruan), Chapman Hall/CRC Press, Boca Raton, FL, October 2009, 362 pages.

Robert Stephen Cantrell - Publications

The model takes the form of two coupled reaction–diffusion equations with time-dependent delays, which bring novel challenges to the theoretical analysis. Then, the model is analysed when competition among immatures is neglected, in which situation one equation for the adult population density is decoupled.

Spatial dynamics of a nonlocal model with periodic delay ...

Feedback occurs when outputs of a system are routed back as inputs as part of a chain of cause-and-effect that forms a circuit or loop. The system can then be said to feed back into itself. The notion of cause-and-effect has to be handled carefully when applied to feedback systems: Simple causal reasoning about a feedback system is difficult because the first system influences the second and ...

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