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**Título:** Spatiotemporal Patterns In Ecology And Epidemiology: Theory, Models, And Simulat

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**Precio:** \$961.20

**Editorial:**

**Año:** 2008

**Tema:**

**Edición:** 1<sup>a</sup>

**Sinopsis**

**ISBN:** 9781584886747

Although the spatial dimension of ecosystem dynamics is now widely recognized, the specific mechanisms behind species patterning in space are still poorly understood and the corresponding theoretical framework is underdeveloped. Going beyond the classical Turing scenario of pattern formation, Spatiotemporal Patterns in Ecology and Epidemiology: Theory, Models, and Simulation illustrates how mathematical modeling and numerical simulations can lead to greater understanding of these issues. It takes a unified approach to population dynamics and epidemiology by presenting several ecoepidemiological models where both the basic interspecies interactions of population dynamics and the impact of an infectious disease are explicitly considered.