



Patterns in Excitable Media: Genesis, Dynamics, and Control

Sitabhra Sinha, S. Sridhar

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Excitable media comprise a class of models for a wide range of physical, chemical, and biological systems that exhibit spontaneous formation of spatial patterns. **Patterns in Excitable Media: Genesis, Dynamics, and Control** explores several aspects of the dynamics of such patterns—in particular their evolution upon interaction with structural and functional heterogeneities in the system.

The book provides readers with an introduction to recent developments in the interdisciplinary field of dynamics and control of patterns in nonlinear biological systems described by excitable media models. It also discusses low-amplitude control schemes for eliminating such patterns from an excitable medium which has direct clinical relevance in view of the close connection to life-threatening cardiac arrhythmia.

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