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Pattern Formations And Oscillatory Phenomena

Abstract. We present examples of familiar phenomena found in nonequilibrium systems, including oscillatory phenomena, order-formation processes, and pattern formation. In particular, we introduce commonly used mathematical methods to analyze their characteristics. First, we present oscillations described by the Lotka–Volterra and van der Pol equations, the Brusselator, the Oregonator, and relaxation oscillations as examples of oscillatory phenomena.

Pattern Formations and Oscillatory Phenomena | ScienceDirect

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Description. Patterns and their formations appear throughout nature, and are studied to analyze different problems in science and make predictions across a wide range of disciplines including biology, physics, mathematics, chemistry, material science, and nanoscience. With the emergence of nanoscience and the ability for researchers and scientists to study living systems at the biological level, pattern formation research has become even more essential.

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Patterns and their formations appear throughout nature, and are studied to analyze different problems in science and make predictions across a range of disciplines including biology, physics, mathematics, chemistry, material science, and nanoscience. This title is suitable for scientists, researchers, engineers, and students.

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Pattern formation - Wikipedia

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Pattern Formations and Oscillatory Phenomena - Knygos.it

We have presented many examples of oscillatory phenomena, order-formation processes, and pattern formations, and clarified their characteristics using various mathematical treatments. In each case, naturally complicated phenomena can be condensed into a few differential equations with few degrees of freedom.

Introduction to Nonequilibrium Phenomena - ScienceDirect

Abstract and Figures Reaction-diffusion models of active media provide a quite general framework for describing pattern formation phenomena in very different systems. Here, we extend this model and...

(PDF) Pattern formation in oscillatory media: Beyond ...

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The history of nonlinear chemical dynamics, a field in which the objects of study are chemical reactions that display such phenomena as periodic or chaotic temporal oscillation and spatial pattern formation, resembles a progression, or perhaps we should say a retrogression, from the freshman mindset described above to that of the elementary school child.

Nonlinear Chemical Dynamics: Oscillations, Patterns, and Chaos

I am an applied mathematician by training. My dissertation addressed phenomena of synchronization and pattern formation in active, oscillatory networks using qualitative theory of differential equations and computational modeling. In addition to mathematics, I learned biophysics and molecular biology during my postdoctoral training.