



# Pattern Formations and Oscillatory Phenomena: 2. Belousov-Zhabotinsky Reaction

*Jun Miyazaki*

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## **Pattern Formations and Oscillatory Phenomena: 2. Belousov-Zhabotinsky Reaction** Jun Miyazaki

In this chapter, temporal and spatial patterns observed in the Belousov–Zhabotinsky (BZ) reaction are described, which is a typical nonlinear chemical reaction system that exhibits oscillation and wave propagation. Some related phenomena in biological systems are presented. The underlying mechanism and modeling of oscillation based on chemical equations are then introduced. Reaction diffusion equations are derived and numerical simulations are performed based on the model to explain how the dynamical pattern appears. Finally, synchronous phenomena observed in the BZ reaction are described with an analytical method based on the phase model.

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