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We perform a numerical study of a two-component reaction-diffusion model. By using numerical continuation methods, combined with state-of-the-art sparse linear and eigenvalue solvers, we systematically compute steady state solutions and analyze their stability and relations in both two and three space dimensions.

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analysis of bifurcations in four-dimensional systems with a homoclinic orbit to a focus-focus is outlined in the new appendix. In Chapter 7, an explicit example of the “blue sky” bifurcation is discussed. Chapter 10, devoted to the numerical analysis of bifurcations, has been changed most substantially.

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