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Reaction-diffusion systems and vector Lyapunov functions. (English) Zbl 0727.35069
Differ. Integral Equ. 1, No. 1, 41-47 (1988).

The author investigates stability properties of weakly coupled reaction- diffusion systems by means of vector Lyapunov functions and shows that this effective approach is also a natural setting for the discussion of such systems. The idea of proof is based on that of *F. A. Howes* and *S. Whitaker* [Nonlinear Anal., Theory Methods Appl. 12, No.12, 1451- 1459 (1988; [Zbl 0712.35012](#))].

Reviewer: [A.Tsutsumi \(Sakai, Osaka\)](#)

MSC:

[35K57](#) Reaction-diffusion equations
[35B35](#) Stability in context of PDEs

Cited in **5** Documents

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[weakly coupled reaction-diffusion systems](#); [Lyapunov functions](#)