

ASYMPTOTIC STATES FOR EQUATIONS OF REACTION AND DIFFUSION

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Contents

1. Introduction
 2. Asymptotic states
 3. The scalar case: Fisher's equation
 4. Systems: stationary solutions
 - (a) Small amplitude stationary solutions
 - (b) Larger amplitude solutions: peaks
 - (c) Larger amplitude solutions: asymptotic methods
 5. Plane wave trains
 - (a) Small amplitude wave trains
 - (b) Wave extensions from homogeneous oscillations
 - (c) Wave trains in excitable media
 - (d) Wave trains for predator-prey equations
 6. Plane wave fronts
 - (a) Gradient systems
 - (b) Small amplitude fronts
 - (c) Systems with small parameters
 - (d) A model from population genetics
 7. Pulses
 8. Targets and spirals; slow modulation
 9. Close relatives of reaction-diffusion equations
 - (a) Discrete versions
 - (b) Integrodifference equations
 - (c) Integrodifferential equations in neurodynamics and epidemiology
- References

1. Introduction. The term "equations of reaction and diffusion" is usually taken to mean semilinear systems of second order partial differential equations of the form

$$\partial u / \partial t = D \Delta u + f(x, t, u, \nabla u), \quad u = (u_1, \dots, u_m), \quad (1.1)$$

or generalizations made by replacing the Laplace operator by linear or quasilinear elliptic operators. Here the "diffusion matrix" D has nonnegative

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