

Dynamics of Internal Layers and Diffusive Interfaces

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Dynamics of Internal Layers and Diffusive Interfaces Paul C. Fife,1988-01-01 A good introduction to interfacial phenomena and is unique in its treatment of flames as well as internal layer dynamics *partial differential equations and applications* Giorgio Talenti,Edoardo Vesentini,Paolo Marcellini,2017-10-02 Written as a tribute to the mathematician Carlo Pucci on the occasion of his 70th birthday this is a collection of authoritative contributions from over 45 internationally acclaimed experts in the field of partial differential equations Papers discuss a variety of topics such as problems where a partial differential equation is coupled with unfavourable boundary or initial conditions and boundary value problems for partial differential equations of elliptic type **Reaction-diffusion Equations And Their Applications And Computational Aspects - Proceedings Of The China-japan Symposium** Tatsien Li,M Mimura,Yasumasa Nishiura,Q X Ye,1997-02-03 The aim of the symposium was to provide a forum for presenting and discussing recent developments and trends in Reaction diffusion Equations and to promote scientific exchanges among mathematicians in China and in Japan especially for the younger generation The topics discussed were Layer dynamics Traveling wave solutions and its stability Equilibrium solutions and its limit behavior stability Bifurcation phenomena Computational solutions and Infinite dimensional dynamical system *Estimating the Error of Numerical Solutions of Systems of Reaction-Diffusion Equations* Donald J. Estep,Mats G. Larson,Roy D. Williams,2000 This paper is concerned with the computational estimation of the error of numerical solutions of potentially degenerate reaction diffusion equations The underlying motivation is a desire to compute accurate estimates as opposed to deriving inaccurate analytic upper bounds In this paper we outline analyze and test an approach to obtain computational error estimates based on the introduction of the residual error of the numerical solution and in which the effects of the accumulation of errors are estimated computationally We begin by deriving an a posteriori relationship between the error of a numerical solution and its residual error using a variational argument This leads to the introduction of stability factors which measure the sensitivity of solutions to various kinds of perturbations Next we perform some general analysis on the residual errors and stability factors to determine when they are defined and to bound their size Then we describe the practical use of the theory to estimate the errors of numerical solutions computationally Several key issues arise in the implementation that remain unresolved and we present partial results and numerical experiments about these points We use this approach to estimate the error of numerical solutions of nine standard reaction diffusion models and make a systematic comparison of the time scale over which accurate numerical solutions can be computed for these problems We also perform a numerical test of the accuracy and reliability of the computational error estimate using the bistable equation Finally we apply the general theory to the class of problems that admit invariant regions for the solutions which includes seven of the main examples Under this additional stability assumption we obtain a convergence result in the form of an upper bound on the error from the a posteriori error estimate We conclude by discussing the preservation of invariant

regions under discretization *ICIAM 91* Robert E. O'Malley, 1992-01-01 *Proceedings Computer Arithmetic Algebra OOP*
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than time the argument shown geometrically on page 11 and then on to page 13 proposes that an extension from a square to a cube is essentially the same kind of extension as from a line to a square h g wells works from

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