

Dynamics of Internal Layers and Diffusive Interfaces

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Dynamics Of Internal Layers And Diffusive Interfaces

Ichiro Satake



Dynamics Of Internal Layers And Diffusive Interfaces:

Dynamics of Internal Layers and Diffusive Interfaces Paul C. Fife, 1988-01-01 Interfacial phenomena are commonplace in physics chemistry biology and in various disciplines bridging these fields They occur whenever a continuum is present which can exist in at least two different chemical or physical states and there is some mechanism which generates or enforces a spatial separation between these states The separation boundary is then called an interface In the examples studied here the separation boundary and its internal structure result from the balance between two opposing tendencies a diffusive effect which attempts to mix and smooth the properties of the material and a physical or chemical mechanism which works to drive it to one or the other pure state This volume is unique in that the treatment of flames as well as internal layer dynamics including curvature effects is more detailed and systematic than in publications 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

Pattern Formation In Complex Dissipative Systems: Fluid Patterns, Liquid Crystals, Chemical Reactions S Kai,1992-09-15 In this volume the problems of pattern formation in physics chemistry and other related fields in complex and nonlinear dissipative systems are studied Main subjects discussed are formation mechanisms properties statistics characterization and dynamics of periodic and nonperiodic patterns in the electrohydrodynamics in liquid crystals Rayleigh Benard convection crystallization viscous fingering and Belousov Zhabotinsky chemical reaction Recent developments in topological and defect mediated chaos chaos in systems with large degrees of freedom and turbulence turbulence transitions are also discussed **Advances in Differential Equations** ,2000 **Hiroshima Mathematical Journal** ,2004 □□□□ □□ ,2000 **Proceedings of the International Congress of Mathematicians** Ichiro Satake,1992-01-05 These proceedings start with the official report of the Congress given in the front pages a list of donors and a list of registered participants as well as the reports of the opening and closing ceremonies The main body of the proceedings includes the papers presented by the 15 plenary speakers and 139 invited speakers selected by the Programm Committee These volumes are rounded off by the reports of the works of the four fields medalists V G Drinfeld V F R Jones S Mori E Witten and the winner of the Rolf Nevanlinna Prize A A Razborov **Transactions of the American Mathematical Society** ,1996 Methods and Applications of Analysis ,2001 *Journal of the Korean Mathematical Society* ,2006 **Journal of Partial Differential Equations** ,2006 **Sūgaku Expositions** ,2003 Lectures in the Sciences of Complexity ,1992 **Bulletin (new Series) of the American Mathematical Society** ,1995 **Phase Transition and Free Boundary Problems** Xinfu Chen,1991 **Discrete and Continuous Dynamical Systems** ,2006 *The Journal of Geometric Analysis* ,1997

Embracing the Tune of Appearance: An Psychological Symphony within **Dynamics Of Internal Layers And Diffusive Interfaces**

In a global consumed by screens and the ceaseless chatter of quick conversation, the melodic splendor and mental symphony developed by the published term frequently diminish into the backdrop, eclipsed by the persistent noise and disruptions that permeate our lives. But, situated within the pages of **Dynamics Of Internal Layers And Diffusive Interfaces** a stunning fictional prize filled with raw thoughts, lies an immersive symphony waiting to be embraced. Constructed by an elegant composer of language, this captivating masterpiece conducts viewers on a mental journey, well unraveling the concealed melodies and profound impact resonating within each carefully constructed phrase. Within the depths of this touching analysis, we can discover the book is main harmonies, analyze their enthralling writing type, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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