Hess, Peter

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Michal Rosen-Zvi

Periodic-parabolic Boundary Value Problems and Positivity Peter Hess, 1991 In these notes we give a unified treatment of semilinear nonautonomous diffusion equations and systems thereof which satisfy a comparison principle and whose coefficient functions depend periodically on time Such equations arise naturally e.g. in biomathematics if one admits dependence of the data on daily monthly or seasonal variations Typical examples considered are the logistic equation with diffusion Fisher's equation of population genetics and Volterra Lotka systems with diffusion of competition and of the predator prey type The existence and qualitative properties of periodic solutions and the asymptotic behaviour of solutions of the initial value problem are studied Basic underlying concepts are strongly order preserving discrete semigroups and the principal eigenvalue of a periodic parabolic operator Ten Mathematical Essays on Approximation in Analysis and Topology Juan Ferrera, J. Lopez-Gomez, F.R. Ruiz del Portal, 2005-04-26 This book collects 10 mathematical essays on approximation in Analysis and Topology by some of the most influent mathematicians of the last third of the 20th Century Besides the papers contain the very ultimate results in each of their respective fields many of them also include a series of historical remarks about the state of mathematics at the time they found their most celebrated results as well as some of their personal circumstances originating them which makes particularly attractive the book for all scientist interested in these fields from beginners to experts These gem pieces of mathematical intra history should delight to many forthcoming generations of mathematicians who will enjoy some of the most fruitful mathematics of the last third of 20th century presented by their own authors This book covers a wide range of new mathematical results Among them the most advanced characterisations of very weak versions of the classical maximum principle the very last results on global bifurcation theory algebraic multiplicities general dependencies of solutions of boundary value problems with respect to variations of the underlying domains the deepest available results in rapid monotone schemes applied to the resolution of non linear boundary value problems the intra history of the the genesis of the first general global continuation results in the context of periodic solutions of nonlinear periodic systems as well as the genesis of the coincidence degree some novel applications of the topological degree for ascertaining the stability of the periodic solutions of some classical families of periodic second order equations the resolution of a number of conjectures related to some very celebrated approximation problems in topology and inverse problems as well as a number of applications to engineering an extremely sharp discussion of the problem of approximating topological spaces by polyhedra using various techniques based on inverse systems as well as homotopy expansions and the Bishop Phelps theorem Key features It contains a number of seminal contributions by some of the most world leading mathematicians of the second half of the 20th Century The papers cover a complete range of topics from the intra history of the involved mathematics to the very last developments in Differential Equations Inverse Problems Analysis Nonlinear Analysis and Topology All contributed papers are self contained works containing rather complete list of

references on each of the subjects covered The book contains some of the very last findings concerning the maximum principle the theory of monotone schemes in nonlinear problems the theory of algebraic multiplicities global bifurcation theory dynamics of periodic equations and systems inverse problems and approximation in topology The papers are extremely well written and directed to a wide audience from beginners to experts An excellent occasion to become engaged with some of the most fruitful mathematics developed during the last decades Finite Difference Methods, Theory and Applications Ivan Dimov, István Faragó, Lubin Vulkov, 2015-06-16 This book constitutes the thoroughly refereed post conference proceedings of the 6th International Conference on Finite Difference Methods FDM 2014 held in Lozenetz Bulgaria in June 2014 The 36 revised full papers were carefully reviewed and selected from 62 submissions These papers together with 12 invited papers cover topics such as finite difference and combined finite difference methods as well as finite element methods and their various applications in physics chemistry biology and finance **Progress In Analysis,** Proceedings Of The 3rd Isaac Congress (In 2 Volumes) Heinrich G W Begehr, Robert Pertsch Gilbert, Man-wah Wong, 2003-08-04 The biannual ISAAC congresses provide information about recent progress in the whole area of analysis including applications and computation This book constitutes the proceedings of the third meeting Dvnamical Systems in Population Biology Xiao-Qiang Zhao, 2017-04-11 This research monograph provides an introduction to the theory of nonautonomous semiflows with applications to population dynamics It develops dynamical system approaches to various evolutionary equations such as difference ordinary functional and partial differential equations and pays more attention to periodic and almost periodic phenomena The presentation includes persistence theory monotone dynamics periodic and almost periodic semiflows basic reproduction ratios traveling waves and global analysis of prototypical population models in ecology and epidemiology Research mathematicians working with nonlinear dynamics particularly those interested in applications to biology will find this book useful It may also be used as a textbook or as supplementary reading for a graduate special topics course on the theory and applications of dynamical systems Dr Xiao Qiang Zhao is a University Research Professor at Memorial University of Newfoundland Canada His main research interests involve applied dynamical systems nonlinear differential equations and mathematical biology He is the author of more than 100 papers and his research has played an important role in the development of the theory and applications of monotone dynamical systems periodic and almost periodic semiflows uniform persistence and basic reproduction ratios Differential Equations with Applications to Biology Shigui Ruan, Gail Susan Kohl Wolkowicz, Jianhong Wu, Progress in Analysis Heinrich G. W. Begehr, Robert Pertsch Gilbert, Man Wah Wong, 2003 The biannual ISAAC congresses provide information about recent progress in the whole area of analysis including applications and computation This book constitutes the proceedings of the third meeting The Role of Advection in a Two-Species Competition Model: A Bifurcation Approach Isabel Averill, King-Yeung Lam, Yuan Lou, 2017-01-18 The effects of weak and strong advection on the dynamics of reaction diffusion models have long been

studied In contrast the role of intermediate advection remains poorly understood For example concentration phenomena can occur when advection is strong providing a mechanism for the coexistence of multiple populations in contrast with the situation of weak advection where coexistence may not be possible The transition of the dynamics from weak to strong advection is generally difficult to determine In this work the authors consider a mathematical model of two competing populations in a spatially varying but temporally constant environment where both species have the same population dynamics but different dispersal strategies one species adopts random dispersal while the dispersal strategy for the other species is a combination of random dispersal and advection upward along the resource gradient For any given diffusion rates the authors consider the bifurcation diagram of positive steady states by using the advection rate as the bifurcation parameter This approach enables the authors to capture the change of dynamics from weak advection to strong advection. The authors determine three different types of bifurcation diagrams depending on the difference of diffusion rates. Some exact multiplicity results about bifurcation points are also presented The authors results can unify some previous work and as a case study about the role of advection also contribute to the understanding of intermediate relative to diffusion advection in reaction diffusion models

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