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Spatial Ecology via Reaction-Diffusion Equations

Robert Stephen Cantrell and Christopher Cosner

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$$(1 - \beta)\nabla\phi + \beta\phi = 0 \quad \text{on } \partial\Omega$$

Spatial Ecology Via Reaction Diffusion Equations

**Giovanni Naldi, Lorenzo
Pareschi, Giuseppe Toscani**



Spatial Ecology Via Reaction Diffusion Equations:

Spatial Ecology via Reaction-Diffusion Equations Robert Stephen Cantrell, Chris Cosner, 2004-01-09 Many ecological phenomena may be modelled using apparently random processes involving space and possibly time Such phenomena are classified as spatial in their nature and include all aspects of pollution This book addresses the problem of modelling spatial effects in ecology and population dynamics using reaction diffusion models Rapidly expanding area of research for biologists and applied mathematicians Provides a unified and coherent account of methods developed to study spatial ecology via reaction diffusion models Provides the reader with the tools needed to construct and interpret models Offers specific applications of both the models and the methods Authors have played a dominant role in the field for years Essential reading for graduate students and researchers working with spatial modelling from mathematics statistics ecology geography and biology

Introduction to Reaction-diffusion Equations King-Yeung Lam, Yuan Lou, 2022 This book introduces some basic mathematical tools in reaction diffusion models with applications to spatial ecology and evolutionary biology It is divided into four parts The first part is an introduction to the maximum principle the theory of principal eigenvalues for elliptic and periodic parabolic equations and systems and the theory of principal Floquet bundles The second part concerns the applications in spatial ecology We discuss the dynamics of a single species and two competing species as well as some recent progress on N competing species in bounded domains Some related results on stream populations and phytoplankton populations are also included We also discuss the spreading properties of a single species in an unbounded spatial domain as modeled by the Fisher KPP equation The third part concerns the applications in evolutionary biology We describe the basic notions of adaptive dynamics such as evolutionarily stable strategies and evolutionary branching points in the context of a competition model of stream populations We also discuss a class of selection mutation models describing a population structured along a continuous phenotypical trait The fourth part consists of several appendices which present a self contained treatment of some basic abstract theories in functional analysis and dynamical systems Topics include the Krein Rutman theorem for linear and nonlinear operators as well as some elements of monotone dynamical systems and abstract competition systems Most of the book is self contained and it is aimed at graduate students and researchers who are interested in the theory and applications of reaction diffusion equations

Mathematical Modeling of Collective

Behavior in Socio-Economic and Life Sciences Giovanni Naldi, Lorenzo Pareschi, Giuseppe Toscani, 2010-08-12 Mathematical modeling using dynamical systems and partial differential equations is now playing an increasing role in the understanding of complex multi scale phenomena Behavior in seemingly different areas such as sociology economics and the life sciences can be described by closely related models Using examples from financial markets and modern warfare to the flocking of birds and the swarming of bacteria the collected research in this volume demonstrates the common methodological approaches and tools for modeling and simulating collective behavior The topics presented point toward new

and challenging frontiers of applied mathematics making the volume a useful reference text for applied mathematicians physicists biologists and economists involved in the modeling of socio economic systems

The Dynamics of Biological Systems Arianna Bianchi, Thomas Hillen, Mark A. Lewis, Yingfei Yi, 2019-10-02 The book presents nine mini courses from a summer school Dynamics of Biological Systems held at the University of Alberta in 2016 as part of the prestigious seminar series Séminaire de Mathématiques Supérieures SMS It includes new and significant contributions in the field of Dynamical Systems and their applications in Biology Ecology and Medicine The chapters of this book cover a wide range of mathematical methods and biological applications They explain the process of mathematical modelling of biological systems with many examples introduce advanced methods from dynamical systems theory present many examples of the use of mathematical modelling to gain biological insight discuss innovative methods for the analysis of biological processes contain extensive lists of references which allow interested readers to continue the research on their own Integrating the theory of dynamical systems with biological modelling the book will appeal to researchers and graduate students in Applied Mathematics and Life Sciences

Infinite Dimensional Dynamical Systems John Mallet-Paret, Jianhong Wu, Yingfei Yi, Huaiping Zhu, 2012-10-11 This collection covers a wide range of topics of infinite dimensional dynamical systems generated by parabolic partial differential equations hyperbolic partial differential equations solitary equations lattice differential equations delay differential equations and stochastic differential equations Infinite dimensional dynamical systems are generated by evolutionary equations describing the evolutions in time of systems whose status must be depicted in infinite dimensional phase spaces Studying the long term behaviors of such systems is important in our understanding of their spatiotemporal pattern formation and global continuation and has been among major sources of motivation and applications of new developments of nonlinear analysis and other mathematical theories Theories of the infinite dimensional dynamical systems have also found more and more important applications in physical chemical and life sciences This book collects 19 papers from 48 invited lecturers to the International Conference on Infinite Dimensional Dynamical Systems held at York University Toronto in September of 2008 As the conference was dedicated to Professor George Sell from University of Minnesota on the occasion of his 70th birthday this collection reflects the pioneering work and influence of Professor Sell in a few core areas of dynamical systems including non autonomous dynamical systems skew product flows invariant manifolds theory infinite dimensional dynamical systems approximation dynamics and fluid flows

Systems-Level Modelling of Microbial Communities Aarthi Ravikrishnan, Karthik Raman, 2018-09-06 Systems Level Modelling of Microbial Communities Theory and Practice introduces various aspects of modelling microbial communities and presents a detailed overview of the computational methods which have been developed in this area This book is aimed at researchers in the field of computational systems biology as well as biologists experimentalists studying microbial communities who are keen on embracing the concepts of computational modelling The primary focus of this book is on methods for modelling interactions

between micro organisms in a community with special emphasis on constraint based and network based modelling techniques A brief overview of population and agent based modelling is also presented Lastly it covers the experimental methods to understand microbial communities and provides an outlook on how the field may evolve in the coming years

Mathematical Methods in Engineering and Applied Sciences Hemen Dutta,2020-01-03 Recognized as a Recommended title by Choice for their October 2020 issue Choice is a publishing unit at the Association of College Research Libraries ACR L a division of the American Library Association Choice has been the acknowledged leader in the provision of objective high quality evaluations of nonfiction academic writing This book covers tools and techniques used for developing mathematical methods and modelling related to real life situations It brings forward significant aspects of mathematical research by using different mathematical methods such as analytical computational and numerical with relevance or applications in engineering and applied sciences Presents theory methods and applications in a balanced manner Includes the basic developments with full details Contains the most recent advances and offers enough references for further study Written in a self contained style and provides proof of necessary results Offers research problems to help early career researchers prepare research proposals Mathematical Methods in Engineering and Applied Sciences makes available for the audience several relevant topics in one place necessary for crucial understanding of research problems of an applied nature This should attract the attention of general readers mathematicians and engineers interested in new tools and techniques required for developing more accurate mathematical methods and modelling corresponding to real life situations

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 *From System Complexity to Emergent Properties* Moulay Aziz-Alaoui, Cyrille Bertelle, 2009-08-07 Emergence and complexity refer to the appearance of higher level properties and behaviours of a system that obviously comes from the collective dynamics of that system's components. These properties are not directly deducible from the lower level motion of that system. Emergent properties are properties of the whole that are not possessed by any of the individual parts making up that whole. Such phenomena exist in various domains and can be described using complexity concepts and thematic knowledges. This book highlights complexity modelling through dynamical or behavioral systems. The pluridisciplinary purposes developed along the chapters are able to design links between a wide range of fundamental and applicative Sciences. Developing such links instead of focusing on specific and narrow researches is characteristic of the Science of Complexity that we try to promote by this contribution. Mathematical Modelling in Health, Social and Applied Sciences Hemen Dutta, 2020-02-29 This book discusses significant research findings in the field of mathematical modelling with particular emphasis on important applied sciences health and social issues. It includes topics such as model on viral immunology stochastic models for the dynamics of influenza model describing the transmission of dengue model for human papillomavirus HPV infection prostate cancer model realization of economic growth by goal programming modelling of grazing periodic solutions in discontinuous systems modelling of predation system fractional epidemiological model for computer viruses and nonlinear ecological models. A unique addition in the proposed areas of research and education this book is a valuable resource for graduate students researchers and educators associated with the study of mathematical modelling of health social and applied sciences issues. Readers interested in applied mathematics should also find this book valuable. *Nonlinearity*, 2006-04 **Bulletin (new Series) of the American Mathematical Society**, 2005 Tutorials in Mathematical Biosciences, 2008 Discrete and Continuous Dynamical Systems, 2009 Nonlinear Systems of Partial Differential Equations Anthony W. Leung, 2009 1 Positive solutions for systems of two equations 1 1 Introduction 1 2 Strictly positive coexistence for diffusive prey predator systems 1 3 Strictly positive coexistence for diffusive competing systems 1 4 Strictly positive coexistence for diffusive cooperating systems 1 5 Stability of steady states as time changes 2 Positive solutions for large systems of equations 2 1 Introduction 2 2 Synthesizing large biological diffusive systems from smaller subsystems 2 3 Application to epidemics of many interacting infected species 2 4 Conditions for coexistence in terms of signs of principal eigenvalues of related single equations mixed boundary data 2 5 Positive steady states for large systems by index method 2 6 Application to reactor dynamics with temperature feedback 3 Optimal control for nonlinear systems of partial differential equations 3 1 Introduction and preliminary results for scalar equations 3 2 Optimal harvesting coefficient control of steady state prey predator diffusive Volterra Lotka systems 3 3 Time periodic optimal control for competing parabolic systems 3 4 Optimal control of an initial boundary value problem for fission reactor systems 3 5 Optimal boundary control of a parabolic problem 4 Persistence upper and lower estimates blowup cross diffusion and degeneracy 4 1 Persistence 4 2

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Mathematical Reviews ,2007 **Dynamical Systems and Differential Equations** Shouchuan Hu,Xin Lu,Weiqing
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