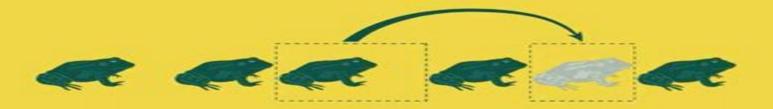
MATHEMATICAL BIOLOGY

Diffusion and Ecological Problems

Modern Perspectives



Akira Okubo Simon A. Levin

Second Edition



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Nonlinear Dynamics and Evolution Equations Hermann Brunner, Xiao-Qiang Zhao, Xingfu Zou, 2006 The papers in this volume reflect a broad spectrum of current research activities on the theory and applications of nonlinear dynamics and evolution equations. They are based on lectures given during the International Conference on Nonlinear Dynamics and Evolution Equations at Memorial University of Newfoundland St John s NL Canada July 6 10 2004 This volume contains thirteen invited and refereed papers Nine of these are survey papers introducing the reader to and describing the current state of the art in major areas of dynamical systems ordinary functional and partial differential equations and applications of such equations in the mathematical modelling of various biological and physical phenomena These papers are complemented by four research papers that examine particular problems in the theory and applications of dynamical systems Information for our distributors Titles in this series are copublished with the Fields Institute for Research in Mathematical Sciences Toronto Ontario Canada

Biomat 2006 - International Symposium On Mathematical And Computational Biology Rubem P Mondaini, Rui Dilao, 2007-05-23 This useful volume contains the contributions from the keynote speakers of the BIOMAT 2006 symposium as well as selected contributions in the areas of mathematical biology biological physics biophysics and bioinformatics It contains new results contributions and comprehensive reviews to the mathematical modeling of infectious diseases such as HIV tuberculosis and hepatitis B Mathematical models for physiological disorders including tumors aneurysms and metabolic diseases are discussed and analyzed This book also contains original contributions to de novo protein structure prediction and multi objective optimization techniques applied to protein tertiary structure prediction DNA evolutionary issues stem cell biology dynamics of biologic membranes reaction diffusion mechanisms population dynamics and bioeconomics are covered and discussed throughout this book Nonlinear Reaction-Diffusion-Convection Equations Roman Cherniha, Mykola Seroy, Oleksii Pliukhin, 2017-11-02 It is well known that symmetry based methods are very powerful tools for investigating nonlinear partial differential equations PDEs notably for their reduction to those of lower dimensionality e q to ODEs and constructing exact solutions This book is devoted to 1 search Lie and conditional non classical symmetries of nonlinear RDC equations 2 constructing exact solutions using the symmetries obtained and 3 their applications for solving some biologically and physically motivated problems The book summarises the results derived by the authors during the last 10 years and those obtained by some other authors Quantum Dynamics with Trajectories Robert E. Wyatt, 2006-05-28 This is a rapidly developing field to which the author is a leading contributor New methods in quantum dynamics and computational techniques with applications to interesting physical problems are brought together in this book Useful to both students and MATHEMATICAL MODELS - Volume III Jerzy A. Filar, Jacek B Krawczyk, 2009-09-19 Mathematical researchers Models is a component of Encyclopedia of Mathematical Sciences in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias The Theme on Mathematical Models discusses matters of

great relevance to our world such as Basic Principles of Mathematical Modeling Mathematical Models in Water Sciences Mathematical Models in Energy Sciences Mathematical Models of Climate and Global Change Infiltration and Ponding Mathematical Models of Biology Mathematical Models in Medicine and Public Health Mathematical Models of Society and Development These three volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers and NGOs

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relevant for biological applications from the symmetry point of view providing rigorous definitions and constructive algorithms to search for conditional symmetry a nontrivial generalization of the well known Lie symmetry of nonlinear reaction diffusion systems In order to present applications to population dynamics it focuses mainly on two and three component diffusive Lotka Volterra systems While it is primarily a valuable guide for researchers working with reaction diffusion systems and those developing the theoretical aspects of conditional symmetry conception parts of the book can also be used in master's level mathematical biology courses Soybean Production Technology Krishna Pratap Singh, N. K. Singh, Aravind T, 2025-03-10 This book is dealing with the crop protection in soybean covering all the major insects pests diseases and weeds infesting soybean The main focus of the book is to provide a single point comprehensive reference on the pests and diseases in soybean covering all the latest advancements in the field The book covers the taxonomic status symptomatology morphology epidemiology and management of all the major pests and diseases in soybean Special attention is given to different components of integrated pest management and the latest biotechnological interventions in the field The pests and diseases are a major constraint in the soybean cultivation leading to significant yield losses Meticulous understanding on these pests is critical for the accurate identification and adoption of the effective management strategies against them This play a crucial role in enhancing the soybean production and thereby help in meeting the globally increasing demand for vegetable oil and protein The book is of special interest to academicians professionals and policy makers actively associated with the research on crop protection in soybean and a valuable source of reference to students scientists industrialists and farmers working on sovbean

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