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MATHEMATICAL BIOLOGY

Diffusion and Ecological Problems

Modern Perspectives



Akira Okubo
Simon A. Levin

Second Edition



Springer

Diffusion And Ecological Problems Modern Perspectives Second Edition

Marco Pettini



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Diffusion and Ecological Problems: Modern Perspectives Akira Okubo, Smon A. Levin, 2002-03-28 Surveying a wide variety of mathematical models of diffusion in the ecological context this book is written with the primary intent of providing scientists particularly physicists but also biologists with some background of the mathematics and physics of diffusion and how they can be applied to ecological problems Equally this is a specialized text book for graduates interested in mathematical ecology assuming no more than a basic knowledge of probability and differential equations Each chapter in this new edition has been substantially updated by appropriate leading researchers in the field and contains much new material covering recent developments Proceedings "WASCOM 2007", 14th Conference on Waves and Stability in Continuous Media Roberto Monaco, 2008 This volume is the fifth in a series of proceedings which started in 1999 The contributions include the latest results on the theory of wave propagation extended thermodynamics and the stability of the solutions to partial differential equations Geometry and Topology in Hamiltonian Dynamics and Statistical Mechanics Marco Pettini, 2007-06-14 It is a special pleasure for me to write this foreword for a remarkable book by a remarkable author Marco Pettini is a deep thinker who has spent many years probing the foundations of Hamiltonian chaos and statistical mechanics in particular phase transitions from the point of view of geometry and topology It is in particular the quality of mind of the author and his deep physical as well as mathematical insights which make this book so special and inspiring It is a must for those who want to venture into a new approach to old problems or want to use new tools for new problems Although topology has penetrated a number of fields of physics a broad participation of topology in the clarification and progress of fundamental problems in the above mentioned fields has been lacking The new perspectives topology gives to the above mentioned problems are bound to help in their clarification and to spread to other fields of science The sparsity of geometric thinking and of its use to solve fundamental problems when compared with purely analytical methods in physics could be relieved and made highly productive using the material discussed in this book It is unavoidable that the physicist reader may have then to learn some new mathematics and be challenged to a new way of thinking but with the author as a guide he is assured of the best help in achieving this that is presently available *The Zoological Record*, 2002 **Random Walk and Diffusion Models** Wolf Schwarz, 2022-10-06 This book offers an accessible introduction to random walk and diffusion models at a level consistent with the typical background of students in the life sciences In recent decades these models have become widely used in areas far beyond their traditional origins in physics for example in studies of animal behavior ecology sociology sports science population genetics public health applications and human decision making Developing the main formal concepts the book provides detailed and intuitive step by step explanations and moves smoothly from simple to more complex models Finally in the last chapter some successful and original applications of random walk and diffusion models in the life and behavioral sciences are illustrated in detail The treatment of basic techniques and models is

consolidated and extended throughout by a set of carefully chosen exercises

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 Serov, 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 g 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 researchers

MATHEMATICAL MODELS - Volume III Jerzy A. Filar, Jacek B Krawczyk, 2009-09-19 Mathematical 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

Ecology - Volume II Antonio Bodini ,Stefan Klotz,2009-10-20 Ecology is a component of Encyclopedia of Environmental and Ecological Sciences Engineering and Technology Resources in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias Ecology is the study of the interrelationships between living organisms and their environment The term ecology was introduced by Ernst Haeckel at the end of the nineteenth century Since that time spectacular advances have been made Much has been learned about the relationship between organisms and environmental factors and about the processes that regulate the abundance and distribution of species The Theme on Ecology with contributions from distinguished experts in the field discusses the Science of Ecology for a Sustainable World The two 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 **Lagrangian Transport in Geophysical Jets and Waves** Roger M. Samelson,Stephen Wiggins,2006-11-24 Written jointly by a specialist in geophysical fluid dynamics and an applied mathematician this is the first accessible introduction to a new set of methods for analysing Lagrangian motion in geophysical flows The book opens by establishing context and fundamental mathematical concepts and definitions exploring simple cases of steady flow and touching on important topics from the classical theory of Hamiltonian systems Subsequent chapters examine the elements and methods of Lagrangian transport analysis in time dependent flows The concluding chapter offers a brief survey of rapidly evolving research in geophysical fluid dynamics that makes use of this new approach **Computational Mathematics** Robert E. White,2003-09-17 Computational Mathematics Models Methods and Analysis with MATLAB and MPI explores and illustrates this process Each section of the first six chapters is motivated by a specific application The author applies a model selects a numerical method implements computer simulations and assesses the ensuing results These chapters include an abundance

Asymptotic Methods In Nonlinear Wave Phenomena: In Honor Of The 65th Birthday Of Antonio Greco Marco Sammartino,Tommaso Ruggeri,2007-04-27 This book brings together several contributions from leading experts in the field of nonlinear wave propagation This field which during the last three decades has seen important breakthroughs from the theoretical point of view has recently acquired increased relevance due to advances in the technology of fluids e g at microscale or nanoscale and the recognition of crucial applications to the understanding of biological phenomena Nonlinear wave theory requires the use of disparate approaches including formal and rigorous asymptotic methods Lie group theory energy methods numerical analysis and

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William Reiners and Kenneth Driese introduce a conceptual framework for studying the propagation of ecological influences across landscapes They also provide examples of models that describe and predict propagation Their volume is an excellent graduate level introduction to the field of landscape ecology which is concerned with the effects of spatial patterns on ecological processes especially the movement of organisms abiotic materials and energy across landscapes **Transport Processes in Nature Hardback with CD-ROM** William A. Reiners, Kenneth L. Driese, 2004-07-08 A conceptual framework for the study and understanding of the propagation of ecological influences in nature **Mathematical Population**

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Alan Hastings, Dr. Louis Gross, 2012-05-31 This major reference is an overview of the current state of theoretical ecology through a series of topical entries centered on both ecological and statistical themes Coverage ranges across scales from the physiological to populations landscapes and ecosystems Entries provide an introduction to broad fields such as Applied Ecology Behavioral Ecology Computational Ecology Ecosystem Ecology Epidemiology and Epidemic Modeling Population Ecology Spatial Ecology and Statistics in Ecology Others provide greater specificity and depth including discussions on the Allee effect ordinary differential equations and ecosystem services Descriptions of modern statistical and modeling approaches and how they contributed to advances in theoretical ecology are also included Succinct uncompromising and authoritative a must have for those interested in the use of theory in the ecological sciences *Nonlinear Reaction-Diffusion*

Systems Roman Cherniha, Vasyl Davydovych, 2017-09-18 This book presents several fundamental results in solving nonlinear reaction diffusion equations and systems using symmetry based methods Reaction diffusion systems are fundamental modeling tools for mathematical biology with applications to ecology population dynamics pattern formation morphogenesis enzymatic reactions and chemotaxis The book discusses the properties of nonlinear reaction diffusion systems which are

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 soybean

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