ON THE VOLTERRA AND OTHER

Nonlinear Models of
Interacting Populations

N. S. Goel

S. C. Maitra

E. W. Montroll

Nonlinear Models Of Interacting Populati

Cristoforo Sergio Bertuglia,Franco Vaio

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   Nonlinear Models of Interacting Populations N Goel,2012-12-02 On the Volterra and Other Nonlinear Models of Interacting Populations explores the various models brought upon to investigate the different assemblies known to man Assemblies include populations of various biological species countries and political parties among others Because there are numerous assemblies to be measured and evaluated it has been decided that a standard model be used to ascertain a detailed investigation One of the models that have been brought forward is introduced by Volterra which started as a basis for ecological processes The book begins by establishing that Volterra s model is one of the simplest nonlinear competition models It explores the model through the study of the population growth of a species It also covers other theories and concepts relating to the Volterra model in the context of the study These include equilibrium theory diversity and stability in ecological systems and time lags in population among others The book is a helpful reference for students researchers scientists policymakers and other parties in search of model s that fully investigate different assemblies   **On the Volterra and Other Nonlinear Models of Interacting Populations Nonlinear Models in Interacting Populations** N. S. Goel,1971   **On the Volterra and Other Nonlinear Models of Interacting Populations** N. S. M. Goel,1971

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between mathematical biology and bifurcation theory <u>Nonlinearity, Chaos, and Complexity</u> Cristoforo Sergio Bertuglia,Franco Vaio,2005-05-12 Covering a broad range of topics this text provides a comprehensive survey of the modelling of chaotic dynamics and complexity in the natural and social sciences Its attention to models in both the physical and social sciences and the detailed philosophical approach make this an unique text in the midst of many current books on chaos and complexity <u>An Introduction to Structured Population Dynamics</u> J. M. Cushing,1998-01-01 This monograph introduces the theory of structured population dynamics and its applications focusing on the asymptotic dynamics of deterministic models **Management and Analysis of Biological Populations** B.-S. Goh,2012-12-02 Management and Analysis of Biological Populations demonstrates the usefulness of optimal control theory in the management of biological populations and the Liapunov function in simulating an ecosystem model under large perturbations of its initial state and continual disturbances on its dynamics The first chapter of the book introduces the topic by presenting the different models in ecology and discussing the stability concepts the ecological engineering and various relevant functions in ecosystem modeling The next chapter contains a brief survey of static optimization techniques and optimal control theory for systems which are modeled by differential and difference equations Another chapter covers methods that use Liapunov and Liapunov like functions to establish that a given population model is stable relative to finite perturbations of its initial state and that it is non vulnerable relative to large continual disturbances The book also covers fisheries and logistic modeling including a discussion of a few management problems Moreover this reference considers stability in an ecosystem model with complexities due to species richness nonlinearities time delays and spatial heterogeneity Finally it explains how to manage pests and greenhouse crops The book is an excellent reference source for students and professionals in ecology and environmental engineering Research professionals and extended workers in agriculture and agronomy will also find this book invaluable **Spatiotemporal Patterns in Ecology and Epidemiology** Horst Malchow,Sergei V. Petrovskii,Ezio Venturino,2007-12-26 Although the spatial dimension of ecosystem dynamics is now widely recognized the specific mechanisms behind species patterning in space are still poorly understood and the corresponding theoretical framework is underdeveloped Going beyond the classical Turing scenario of pattern formation Spatiotemporal Patterns in Ecology and Epidemiology <u>New Trends in the Applications of Differential Equations in Sciences</u> Angela Slavova,2025-06-16 This volume compiles selected papers focusing on the applications of differential equations across various scientific domains presented at the International Conference New Trends in the Applications of Differential Equations in Sciences NTADES which took place in Saints Constantine and Helena Bulgaria in July 2024 The book is organized around several key themes including applications in mathematical physics mathematical biology financial mathematics fractional analysis numerical methods and neuroscience The covered applications encompass diverse topics such as mechanics neural networks in insurance credit portfolios predator prey systems with fractional derivatives recent findings regarding COVID 19 epidemic

waves memristive cellular nonlinear networks and more By promoting fundamental research in mathematics this book aims to develop new methods and techniques that can effectively address real life challenges through the application of differential equations   <u>Mathematical Models in Biology</u> Elizabeth Spencer Allman,John A. Rhodes,2004 This introductory textbook on mathematical biology focuses on discrete models across a variety of biological subdisciplines Biological topics treated include linear and non linear models of populations Markov models of molecular evolution phylogenetic tree construction genetics and infectious disease models The coverage of models of molecular evolution and phylogenetic tree construction from DNA sequence data is unique among books at this level Computer investigations with MATLAB are incorporated throughout in both exercises and more extensive projects to give readers hands on experience with the mathematical models developed MATLAB programs accompany the text Mathematical tools such as matrix algebra eigenvector analysis and basic probability are motivated by biological models and given self contained developments so that mathematical prerequisites are minimal   **An Introduction to Mathematical Models in the Social and Life Sciences** Michael Olinick,1978   **Stochastic Models in Biology** Narendra S. Goel,Nira Richter-Dyn,2003 This monograph first published in 1974 is an attempt to demonstrate the usefulness of the theory of stochastic processes in understanding biologic phenomena at various levels of complexity from the molecular to the ecologic level The modeling of biologic systems via stochastic processes allows the incorporation of effects of secondary factors for which a detailed knowledge is missing In the first two chapters of the monograph the authors present the mathematic analysis used in the later chapters The authors attempted to make the chapters self contained and to make the book comprehensive bringing in results derived by different authors using a variety of techniques and notations In later chapters where models of various biologic phenomena are discussed introductory reviews of those phenomena are given for readers with less biologic background Nira Dyn is a professor of Applied Mathematics at Tel Aviv University in Israel since 1984 Her main field of activity now is Geometric Modeling Her previous research interests were in Approximation Theory and in Mathematical Modeling of Biological systems She is now serving in the editorial boards of the Journal of Approximation Theory and of the journal Computer Aided Geometric Design She wrote more than 130 papers and participated actively in more than 80 conferences and workshops Her education was in Applied Mathematics in Israeli institutions B Sc from the Technion Haifa in 1965 M Sc from the Weizmann Institute Rehovot in 1967 Ph D from the Weizmann Institute Rehovot in 1970   *Environment & Planning A.* ,1989   **Partial Differential Equations and Dynamical Systems** William Edward Fitzgibbon,1984 There has recently been a great amount of activity and a rapid growth in the areas of partial differential equations and dynamical systems This interest has been encouraged by the development of powerful new techniques in nonlinear analysis and a renewed scientific interest in applied mathematical analysis This book has been designed to make the reader aware of progress and current problems in this exciting and useful area The book consists of articles by internationally known mathematical scientists based

on lectures given during a year long program at the University of Houston   *Proceedings of the International Conference on Mathematical Modeling* ,1977   **Pure and Applied Science Books, 1876-1982** ,1982 Over 220 000 entries representing some 56 000 Library of Congress subject headings Covers all disciplines of science and technology e g engineering agriculture and domestic arts Also contains at least 5000 titles published before 1876 Has many applications in libraries information centers and other organizations concerned with scientific and technological literature Subject index contains main listing of entries Each entry gives cataloging as prepared by the Library of Congress Author title indexes

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