

ON THE VOLTERRA AND OTHER
**Nonlinear Models of
Interacting Populations**

**N. S. Goel
S. C. Maitra
E. W. Montroll**

A Reviews of Modern Physics Monograph

Nonlinear Models Of Interacting Populations N Goel



N Goel

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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 models that fully investigate different assemblies. *Nonlinear System Theory* Casti, 1985-02-21 *Nonlinear System Theory* General Biophysics M. V. Volkenstein, 2013-10-22 *General Biophysics* Volume II studies biological phenomena at the supramolecular and cellular levels of structure. The book considers biological phenomena on the basis of general physical principles. The text presents topics on bioenergetic processes, structure and properties of mitochondria, photo-biological processes, nonlinear dynamic processes, and physical interpretation of the most general problems of biology. Graduate and postgraduate students in the field of physical and life sciences will find this book very useful. **Stochastic Models in Biology** Narendra S. Goel, Nira Richter-Dyn, 2013-10-22 *Stochastic Models in Biology* describes the usefulness of the theory of stochastic process in studying biological phenomena. The book describes analysis of biological systems and experiments through probabilistic models rather than deterministic methods. The text reviews the mathematical analyses for modeling different biological systems such as the random processes continuous in time and discrete in state space. The book also discusses population growth and extinction through Malthus law and the work of MacArthur and Wilson. The text then explains the dynamics of a population of interacting species. The book also addresses population genetics under systematic evolutionary pressures known as deterministic equations and genetic changes in a finite population known as stochastic equations. The text then turns to stochastic modeling of biological systems at the molecular level, particularly the kinetics of biochemical reactions. The book also presents various useful equations such as the differential equation for generating functions for birth and death processes. The text can prove valuable for biochemists, cellular biologists, and researchers in the medical and chemical field who are tasked to perform data analysis. **Network Models in Population Biology** E. R. Lewis, 2012-12-06 This book is an outgrowth of one phase of an upper division course on quantitative ecology given each year for the past eight at Berkeley. I am most grateful to the students in that course and to many graduate students in the Berkeley Department of Zoology and Colleges of Engineering and Natural Resources whose

spirited discussions inspired much of the book's content. I also am deeply grateful to those faculty colleagues with whom at one time or another I have shared courses or seminars in ecology or population biology: D. M. Auslander, L. Demetrius, G. Oster, O. H. Paris, F. A. Pitelka, A. M. Schultz, Y. Takahashi, D. B. Tyler, and P. Vogelhut, all of whom contributed substantially to the development of my thinking in those fields; to my departmental colleagues E. Polak and A. J. Thomasian who guided me into the literature on numerical methods and stochastic processes; and to the graduate students who at one time or another have worked with me on population biology projects: L. M. Brodnax, S. P. Chan, A. Elterman, G. C. Ferrell, D. Green, C. Hayashi, K. L. Lee, W. F. Martin Jr., D. May, J. Stamnes, G. E. Swanson, and I. Weeks who together undoubtedly provided me with the greatest inspiration. I am indebted to the copy editing and production staff of Springer Verlag especially to Ms. M. Muzeniek for their diligence and skill, and to Mrs. Alice Peters, biomathematics editor, for her patience.

Quantitative Sociodynamics D. Helbing, 2013-03-14

Quantitative Sociodynamics presents a general strategy for interdisciplinary model building and its application to a quantitative description of behavioural changes based on social interaction processes. Originally the crucial methods for the modeling of complex systems: stochastic methods and nonlinear dynamics were developed in physics but they have very often proved their explanatory power in chemistry, biology, economics, and the social sciences. Quantitative Sociodynamics provides a unified and comprehensive overview of the different stochastic methods, their interrelations, and properties. In addition, it introduces the most important concepts from nonlinear dynamics, synergetics, chaos theory. The applicability of these fascinating concepts to social phenomena is carefully discussed. By incorporating decision theoretical approaches, a very fundamental dynamic model is obtained which seems to open new perspectives in the social sciences. It includes many established models as special cases, e.g., the logistic equation, the gravity model, some diffusion models, the evolutionary game theory, and the social field theory, but it also implies numerous new results. Examples concerning opinion formation, migration, social field theory, the self-organization of behavioural conventions, as well as the behaviour of customers and voters, are presented and illustrated by computer simulations. Quantitative Sociodynamics is relevant both for social scientists and natural scientists who are interested in the application of stochastic and synergetics concepts to interdisciplinary topics.

Quantitative Sociodynamics Dirk Helbing, 2010-11-15

When I wrote the book *Quantitative Sociodynamics* it was an early attempt to make methods from statistical physics and complex systems theory fruitful for the modeling and understanding of social phenomena. Unfortunately, the first edition appeared at a quite prohibitive price. This was one reason to make these chapters available again by a new edition. The other reason is that in the meantime many of the methods discussed in this book are more and more used in a variety of different fields. Among the ideas worked out in this book are: 1. a statistical theory of binary social interactions, a mathematical formulation of social field theory which is the basis of social 2. force models, a microscopic foundation of evolutionary game theory based on what is known today as proportional imitation rule, a stochastic treatment of interactions in evolutionary game theory, and a model for the self-organization of behavioral 3.

conventions in a coordination game It therefore appeared reasonable to make this book available again but at a more affordable price To keep its original character the translation of this book which 1 D Helbing Interrelations between stochastic equations for systems with pair interactions PhysicaA 181 29 52 1992 D Helbing Boltzmann like and Boltzmann Fokker Planck equations as a foundation of behavioral models PhysicaA 196 546 573 1993 2 D Helbing Boltzmann like and Boltzmann Fokker Planck equations as a foundation of behavioral models PhysicaA 196 546 573 1993 D Concepts and Models of a Quantitative Sociology W. Weidlich, G. Haag, 2012-12-06 While the volumes hitherto published in the Springer Series in Synergetics have been devoted almost exclusively to the self organized formation of structures in physics chemistry and biology the present monograph by Weidlich and Haag deals with the formation of structures or patterns in society At first glance it would seem a daring enterprise to deal with the complex processes in society using concepts and methods first developed in physics But over the past decade it has been shown that there is a large class of phenomena in a variety of fields to which unifying concepts can be applied This is particularly true of situations in which a system composed of many parts or individuals acquires a new structure on macroscopic scales Indeed this is the definition of synergetics which I formulated more than a decade ago and which formed the basis of my survey on the profound analogies in the behaviour of complex systems including those of sociology H Haken Synergetics An Introduction Volume 1 of this series As I have pointed out on many occasions the universal validity of these concepts is neither accidental nor is it caused by a mere extension of physical rules to other fields but is instead a consequence of deep rooted structural properties of systems of interacting parts which are due to rigorous mathematical laws Generally speaking concepts and methods originally used in physics can be applied to sociological phenomena in two ways *Selected Papers of Demetrios G. Magiros* S.G. Tzafestas, 2012-12-06 The theory of nonlinear oscillations and stability of motion is a fundamental part of the study of numerous real world phenomena These phenomena particularly auto oscillations of the first and second kind capture parametric subharmonic and ultraharmonic resonance asymptotic behavior and orbits stability constitute the core of problems treated in Nonlinear Mechanics and their study is connected with the names of H Poincare A M Lyapunov N M Krylov and N N Bogolyubov Professor Demetrios Magiros a widely known scientist in the theories of oscillations and nonlinear differential equations has devoted his numerous works to this significant part of modern physical science His scientific results can be classified in the following way 1 creation of methods of analysis of subharmonic resonances under the nonlinear effect 2 determination and analysis of the main modes of nonlinear oscillations on the basis of infinite determinants 3 analysis of problems of celestial mechanics 4 classification of stability of solutions of dynamic systems concepts 5 mathematical analogs of physical and social systems He has developed new methods and solutions for a great number of difficult problems of nonlinear mechanics making a significant contribution to the theory and applications of the field Urgency depth of perception of the considered phenomena and practical directness are characteristics of his work **Diffusion and Ecological Problems: Modern Perspectives** Akira

Okubo, Smon A. Levin, 2013-04-17 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 Modeling and Differential Equations in Biology T. A. Burton, 2017-10-05 First published in 1980 CRC Press is an imprint of Taylor Francis

Noise-Induced Phenomena in the Environmental Sciences Luca Ridolfi, Paolo D'Odorico, Francesco Laio, 2011-06-20 Randomness is ubiquitous in nature Random drivers are generally considered a source of disorder in environmental systems However the interaction between noise and nonlinear dynamics may lead to the emergence of a number of ordered behaviors in time and space that would not exist in the absence of noise This counterintuitive effect of randomness may play a crucial role in environmental processes For example seemingly random background events in the atmosphere can grow into larger instabilities that have great effects on weather patterns This book presents the basics of the theory of stochastic calculus and its application to the study of noise induced phenomena in environmental systems It will be an invaluable reference text for ecologists geoscientists and environmental engineers interested in the study of stochastic environmental dynamics

Dynamic Decision Theory G. Haag, 2012-12-06 Choice processes appear in all spheres of society Hitherto ruling paradigms in the modelling of choice problems have presumed a competitive general equilibrium which however proves insufficient for dynamic processes This contribution aims at providing a general coherent and closed framework for the dynamic modelling of decision processes It was one of my main interests to build a bridge between the pure model building concepts and their practical applications Therefore all given examples are related to empirical work Solution algorithms for the estimation of trend parameters as well as the numerical simulation in concrete applications therefore play a central role in this contribution Friendly relations with a number of colleagues from many universities in Europe and the U S have emerged during the different applications I wish to thank all of them The international cooperations were mainly initiated and supported by conferences and workshops organized and financed by the International Institute for Applied Systems Analysis IIASA the Istituto Ricerche Economiche Sociali Del Piemonte IRES the Institut National D Etudes Demographiques INED the Centre for Regional Science Research UmeJ CERUM and the Projets de Cooperation et D Echange avec France Procop Special thanks go to the Volkswagen Stiftung for financial support of this work over the years Thanks also go in particular to my friend and mentor Prof W Weidlich for his encouragement and for the many suggestions he made in fruitful discussions and common work that have taken place over the years On the Volterra and Other Nonlinear Models of Interacting Populations Narendra S. Goel, S. C. Maitra, E. W. Montroll, 1971 **Population Dynamics and the Tribolium**

Model: Genetics and Demography Robert F. Costantino, Robert A. Desharnais, 2012-12-06 The study of populations is becoming increasingly focused on dynamics We believe there are two reasons for this trend The first is the impact of nonlinear dynamics with its exciting ideas and colorful language bifurcations domains of attraction chaos fractals strange attractors Complexity which is so very much a part of biology now seems to be also a part of mathematics A second trend is the accessibility of the new concepts The barriers to communication between theorist and experimentalist seem impenetrable The active participation of the experimentalist means that the theory will obtain substance Our role is the application of the theory of dynamics to the analysis of biological populations We began our work early in 1979 by writing an ordinary differential equation for the rate of change in adult numbers which was based on an equilibrium model proposed a decade earlier During the next few months we filled our notebooks with straightforward deductions from the model and its associated biological implications Slowly some of the biological observations were explained and papers followed on a variety of topics genetic and demographic stability stationary probability distributions for population size population growth as a birth death process natural selection and density dependent population growth genetic disequilibrium and the stationary stochastic dynamics of adult numbers *Nonlinear Analysis, Geometry and Applications* Diaraf Seck, Kivi Kangni, Marie Salomon Sambou, Philibert Nang, Mouhamed Moustapha Fall, 2024-05-22 The NLAGA s Biennial International Research Symposium NLAGA BIRS is intended to gather African experts in Nonlinear Analysis Geometry and their Applications with their international partners in a four days conference where new mathematical results are presented and discussed This book features the best papers presented during this Biennial The different topics addressed are related to Partial Differential Equations Differential inclusions Geometrical Analysis of Optimal Shapes Complex Analysis Geometric Structures Algebraic Geometry Algebraic Optimization Optimal Control and Mathematical modeling The main focus of the NLAGA project is to deepen and consolidate the development in West and Center Africa of Nonlinear Analysis Geometry and their Applications aimed at solving in particular real world problems such as coastal erosion urban network pollution problems and population dynamics *Control Theory, Numerical Methods and Computer Systems Modelling* A. Bensoussan, J. L. Lions, 2013-03-08

Handbook of the Logistic Distribution N. Balakrishnan, 2013-10-09 This book highlights various theoretical developments on logistic distribution illustrates the practical utility of these results and describes univariate and multivariate generalizations of the distribution It is useful for researchers practicing statisticians and graduate students **Cities and Their Vital Systems** Advisory Committee on Technology and Society, 1988-02-01 Cities and Their Vital Systems asks basic questions about the longevity utility and nature of urban infrastructures analyzes how they grow interact and change and asks how when and at what cost they should be replaced Among the topics discussed are problems arising from increasing air travel and airport congestion the adequacy of water supplies and waste treatment the impact of new technologies on construction urban real estate values and the field of telematics the combination of computers and telecommunications that

makes money machines and national newspapers possible **Technology and Environment** National Academy of Engineering, 1989-02-01 Technology and Environment is one of a series of publications designed to bring national attention to issues of the greatest importance in engineering and technology during the 25th year of the National Academy of Engineering. A paradox of technology is that it can be both the source of environmental damage and our best hope for repairing such damage today and avoiding it in the future. Technology and Environment addresses this paradox and the blind spot it creates in our understanding of environmental crises. The book considers the proximate causes of environmental damage: machines, factories, cities, and so on, in a larger societal context from which the will to devise and implement solutions must arise. It helps explain the depth and difficulty of such issues as global warming and hazardous wastes but also demonstrates the potential of technological innovation to have a constructive impact on the planet. With a range of data and examples, the authors cover such topics as the industrial metabolism of production and consumption, the environmental consequences of the information era, and design of environmentally compatible technologies.

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