

POPULATION DYNAMICS

Populations CHANGE according to how many organisms are present.

Populations can get bigger or smaller depending on the situation

Dynamics Of Populations

Shripad Tuljapurkar



Dynamics Of Populations:

Population Dynamics in Variable Environments Shripad Tuljapurkar, 2013-04-17 Demography relates observable facts about individuals to the dynamics of populations. If the dynamics are linear and do not change over time, the classical theory of Lotka (1907) and Leslie (1945) is the central tool of demography. This book addresses the situation when the assumption of constancy is dropped. In many practical situations, a population will display unpredictable variation over time in its vital rates, which must then be described in statistical terms. Most of this book is concerned with the theory of populations which are subject to random temporal changes in their vital rates, although other kinds of variation, e.g. cyclical, are also dealt with. The central questions are: how does temporal variation work its way into a population's future, and how does it affect our interpretation of a population's past? The results here are directed at demographers of humans and at population biologists. The uneven mathematical level is dictated by the material, but the book should be accessible to readers interested in population theory. Readers looking for background or prerequisites will find much of it in Hal Caswell's *Matrix population models: construction, analysis, and interpretation* (Sinauer, 1989). This book is in essence a progress report and is deliberately brief. I hope that it is not mystifying. I have not attempted to be complete about either the history or the subject, although most significant results and methods are presented. *Principles of Population Dynamics and Their Application* Alan A. Berryman, 2020-11-25 This book provides an introduction to population dynamics, exploring rules that govern change in any dynamic system and applying these general principles to populations of living organisms. *Principles of Population Dynamics and their Application* is aimed at applied ecologists, resource managers, and pest managers. It is also aimed at undergraduate students taking courses in forestry, fisheries, wildlife, and pest management. *Population Dynamics* Maurice E. Solomon, 1971 **An Introduction to Structured Population Dynamics** 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. *Population Dynamics for Conservation* Louis W. Botsford, J. Wilson White, Alan Hastings, 2019-09-26 The management and conservation of natural populations relies heavily on concepts and results generated from models of population dynamics. Yet this is the first book to present a unified and coherent explanation of the underlying theory. This novel text begins with a consideration of what makes a good state variable, progressing from the simplest models (those with a single variable, such as abundance or biomass) to more complex models with other key variables of population structure, including age, size, life history stage, and space. Throughout the book, attention is paid to concepts such as population variability, population stability, population viability, persistence, and harvest yield. Later chapters address specific applications to conservation, such as recovery planning for species at risk, fishery management, and the spatial management of marine resources. *Population Dynamics for Conservation* is suitable for graduate-level students. It will also be valuable to academic and applied researchers in population biology. This overview of population dynamic theory can serve to further their

population research as well as to improve their understanding of population management

Dynamics of Populations
George Ronald Gradwell,1970 **Population Dynamics** Maurice E. Solomon,1978 Population Dynamics Naomi Cappuccino,Peter W. Price,1995-09-01 An understanding of the dynamics of populations is critically important to ecologists evolutionary biologists wildlife managers foresters and many other biologists This edited treatise brings together the latest research on how populations fluctuate in size the factors that drive these changes and the theories explaining how populations are regulated The book also includes specific chapters dealing with insects of economic importance *Complex Population Dynamics* Peter Turchin,2003-02-02 Why do organisms become extremely abundant one year and then seem to disappear a few years later Why do population outbreaks in particular species happen more or less regularly in certain locations but only irregularly or never at all in other locations Complex population dynamics have fascinated biologists for decades By bringing together mathematical models statistical analyses and field experiments this book offers a comprehensive new synthesis of the theory of population oscillations Peter Turchin first reviews the conceptual tools that ecologists use to investigate population oscillations introducing population modeling and the statistical analysis of time series data He then provides an in depth discussion of several case studies including the larch budmoth southern pine beetle red grouse voles and lemmings snowshoe hare and ungulates to develop a new analysis of the mechanisms that drive population oscillations in nature Through such work the author argues ecologists can develop general laws of population dynamics that will help turn ecology into a truly quantitative and predictive science *Complex Population Dynamics* integrates theoretical and empirical studies into a major new synthesis of current knowledge about population dynamics It is also a pioneering work that sets the course for ecology s future as a predictive science Population Dynamics Bertram G. Jr. Murray,2013-07-22 *Population Dynamics Alternative Models* provides a theoretical framework of population dynamics This book contains seven chapters that discuss the controversies surrounding discussions on the explicit view of the subject Chapters 1 and 2 present a general introduction to the terminology the mathematical background and the philosophical approach that lie behind the theoretical development Chapter 3 contains a series of models accounting for variations in population growth rates sizes and fluctuations while Chapter 4 examines a model accounting for the evolution of life history patterns A more detailed examination of the effects of predation on prey populations especially with respect to determining a prey population s maximum sustainable yield is explored in Chapter 5 Chapter 6 highlights the interspecific competition theory in terms of the population dynamics models presented in a previous chapter Chapter 7 summarizes the developments in the population dynamics research studies This work will be of great value to ecologists biologists and population dynamics researchers Modelling Population Dynamics K. B. Newman,2014 This book gives a unifying framework for estimating the abundance of open populations populations subject to births deaths and movement given imperfect measurements or samples of the populations The focus is primarily on populations of vertebrates for which dynamics are typically modelled

within the framework of an annual cycle and for which stochastic variability in the demographic processes is usually modest. Discrete time models are developed in which animals can be assigned to discrete states such as age class, gender, maturity, population within a metapopulation or species for multi-species models. The book goes well beyond estimation of abundance, allowing inference on underlying population processes such as birth or recruitment, survival and movement. This requires the formulation and fitting of population dynamics models. The resulting fitted models yield both estimates of abundance and estimates of parameters characterizing the underlying processes.

Population Dynamics in Variable Environments
Shripad Tuljapurkar, 1985 *A Short History of Mathematical Population Dynamics*
Nicolas Bacaër, 2011-02-01

As Eugene Wigner stressed, mathematics has proven unreasonably effective in the physical sciences and their technological applications. The role of mathematics in the biological, medical and social sciences has been much more modest but has recently grown thanks to the simulation capacity offered by modern computers. This book traces the history of population dynamics, a theoretical subject closely connected to genetics, ecology, epidemiology and demography, where mathematics has brought significant insights. It presents an overview of the genesis of several important themes: exponential growth from Euler and Malthus to the Chinese one-child policy; the development of stochastic models from Mendel's laws and the question of extinction of family names to percolation theory for the spread of epidemics and chaotic populations where determinism and randomness intertwine. The reader of this book will see from a different perspective the problems that scientists face when governments ask for reliable predictions to help control epidemics (AIDS, SARS, swine flu), manage renewable resources (fishing quotas), spread of genetically modified organisms or anticipate demographic evolutions such as aging.

Analytical Population Dynamics
T. Royama, 1996 **Population Systems**
Alan A. Berryman, Pavel Kindlmann, 2008-03-19

I had taught courses in applied ecology, population dynamics and population management for many years and like many of my colleagues had grown accustomed to the blank stares of my students as we wove our way through the confused semantics and intricate concepts of traditional ecology and wrestled with elaborate mathematical arguments. I searched in vain for a central unifying concept on which to organize a theory of population ecology until 30 years ago I read a small book of essays edited by John Milsum of McGill University entitled *Positive Feedback: A General Systems Approach to Positive, Negative Feedback and Mutual Causality*. Stimulated by the articles in this book, particularly those written by Milsum, M. Maruyama and A. Rapoport, I began to structure my lectures around the central ideas of general systems theory. I first used this approach in my graduate courses in population dynamics and population management and then encouraged by the results in my undergraduate course in forest entomology and to teach population dynamics to practicing foresters. Almost without exception, my students found the general systems approach intuitively reasonable and easier to understand than traditional teaching methods. Even undergraduates seem to grasp the fundamental principles quite rapidly and more important to realize that a general understanding of population systems is an essential part of their education. These reactions by my students and their

continued encouragement led me to write this book **The Basic Approach to Age-Structured Population Dynamics**

Mimmo Iannelli, Fabio Milner, 2017-08-27 This book provides an introduction to age structured population modeling which emphasizes the connection between mathematical theory and underlying biological assumptions Through the rigorous development of the linear theory and the nonlinear theory alongside numerics the authors explore classical equations that describe the dynamics of certain ecological systems Modeling aspects are discussed to show how relevant problems in the fields of demography ecology and epidemiology can be formulated and treated within the theory In particular the book presents extensions of age structured modeling to the spread of diseases and epidemics while also addressing the issue of regularity of solutions the asymptotic behavior of solutions and numerical approximation With sections on transmission models non autonomous models and global dynamics this book fills a gap in the literature on theoretical population dynamics

The Basic Approach to Age Structured Population Dynamics will appeal to graduate students and researchers in mathematical biology epidemiology and demography who are interested in the systematic presentation of relevant models and mathematical methods Perturbation, Behavioural Feedbacks, and Population Dynamics in Social Animals Daniel Oro, 2020 In social animals perturbations may trigger specific behavioural responses with consequences for dispersal and complex population dynamics Perturbations raise the need for information gathering in order to reduce uncertainty and increase resilience Updated information is then shared within the group and social behaviours emerge as a self organized process This social information factoralizes with the size of the group and it is finally used for making crucial decisions about for instance when to leave the patch and where to go Indeed evolution has favoured philopatry over dispersal and this trade off is challenged by perturbations When perturbations accumulate over time they may decrease the suitability of the patch and erode the philopatric state until crossing a tipping point beyond which most individuals decide to disperse to better areas Initially the decision to disperse is led by a few individuals and this decision is copied by the rest of the group in an autocatalytic way This feedback process of social copying is termed runaway dispersal Furthermore social copying enhances the evolution of cultural and technological innovation which may cause additional nonlinearities for population dynamics Social information gathering and social copying have also occurred in human evolution especially after perturbations such as climate extremes and warfare In summary social feedback processes cause nonlinear population dynamics including hysteresis and critical transitions from philopatry to patch collapses and invasions which emerge from the collective behaviour of large ensembles of individuals *Modelling Population Dynamics* K. B. Newman, S. T. Buckland, B. J. T. Morgan, R. King, D. L. Borchers, D. J. Cole, P. Besbeas, O. Gimenez, L. Thomas, 2014-07-16 This book gives a unifying framework for estimating the abundance of open populations subject to births deaths and movement given imperfect measurements or samples of the populations The focus is primarily on populations of vertebrates for which dynamics are typically modelled within the framework of an annual cycle and for which stochastic variability in the demographic processes

is usually modest Discrete time models are developed in which animals can be assigned to discrete states such as age class gender maturity population within a metapopulation or species for multi species models The book goes well beyond estimation of abundance allowing inference on underlying population processes such as birth or recruitment survival and movement This requires the formulation and fitting of population dynamics models The resulting fitted models yield both estimates of abundance and estimates of parameters characterizing the underlying processes

Working with Dynamic Crop Models Daniel Wallach, David Makowski, James W. Jones, Francois Brun, 2013-11-25 This second edition of *Working with Dynamic Crop Models* is meant for self learning by researchers or for use in graduate level courses devoted to methods for working with dynamic models in crop agricultural and related sciences Each chapter focuses on a particular topic and includes an introduction a detailed explanation of the available methods applications of the methods to one or two simple models that are followed throughout the book real life examples of the methods from literature and finally a section detailing implementation of the methods using the R programming language The consistent use of R makes this book immediately and directly applicable to scientists seeking to develop models quickly and effectively and the selected examples ensure broad appeal to scientists in various disciplines 50% new content 100% reviewed and updated Clearly explains practical application of the methods presented including R language examples Presents real life examples of core crop modeling methods and ones that are translatable to dynamic system models in other fields

Modelling Biological Populations in Space and Time Eric Renshaw, 1993-08-26 This volume develops a unifying approach to population studies emphasising the interplay between modelling and experimentation Throughout mathematicians and biologists are provided with a framework within which population dynamics can be fully explored and understood Aspects of population dynamics covered include birth death and logistic processes competition and predator prey relationships chaos reaction time delays fluctuating environments spatial systems velocities of spread epidemics and spatial branching structures Both deterministic and stochastic models are considered Whilst the more theoretically orientated sections will appeal to mathematical biologists the material is presented so that readers with little mathematical expertise can bypass these without losing the main flow of the text

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