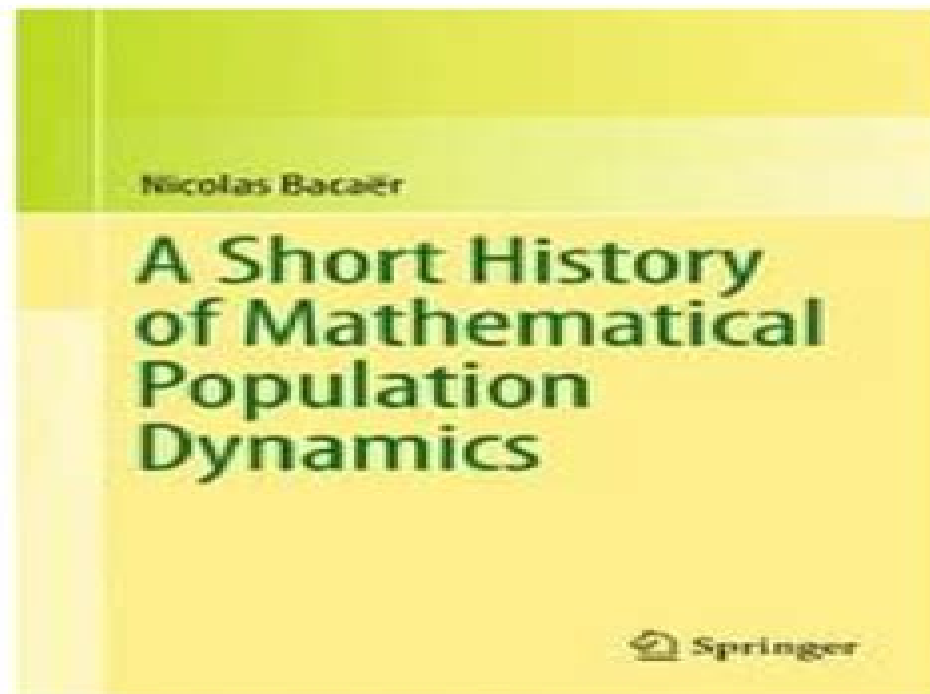


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A Short History of Mathematical Population Dynamics Nicolas Bacaër, 2011-04-08

Age-Structured Population Dynamics in Demography and Epidemiology Hisashi Inaba, 2017-03-15 This book is the first one in which basic demographic models are rigorously formulated by using modern age structured population dynamics extended to study real world population problems Age structure is a crucial factor in understanding population phenomena and the essential ideas in demography and epidemiology cannot be understood without mathematical formulation therefore this book gives readers a robust mathematical introduction to human population studies In the first part of the volume classical demographic models such as the stable population model and its linear extensions density dependent nonlinear models and pair formation models are formulated by the McKendrick partial differential equation and are analyzed from a dynamical system point of view In the second part mathematical models for infectious diseases spreading at the population level are examined by using nonlinear differential equations and a renewal equation Since an epidemic can be seen as a nonlinear renewal process of an infected population this book will provide a natural unification point of view for demography and epidemiology The well known epidemic threshold principle is formulated by the basic reproduction number which is also a most important key index in demography The author develops a universal theory of the basic reproduction number in heterogeneous environments By introducing the host age structure epidemic models are developed into more realistic demographic formulations which are essentially needed to attack urgent epidemiological control problems in the real world

A Primer on Population Dynamics Modeling Hiromi Seno, 2022-11-16 This textbook provides an introduction to the mathematical models of population dynamics in mathematical biology The focus of this book is on the biological meaning translation of mathematical structures in mathematical models rather than simply explaining mathematical details and literacies to analyze a model In some recent usages of the

mathematical model simply with computer numerical calculations the model includes some inappropriate mathematical structure concerning the reasonability of modeling for the biological problem under investigation For students and researchers who study or use mathematical models it is important and helpful to understand what mathematical setup could be regarded as reasonable for the model with respect to the relation between the biological factors involved in the assumptions and the mathematical structure of the model Topics covered in this book are modeling with geometric progression density effect in population dynamics deriving continuous time models from discrete time models basic modeling for birth death stochastic processes continuous time models modeling interspecific reaction for the continuous time population dynamics model competition and prey predator dynamics modeling for population dynamics with a heterogeneous structure of population qualitative analysis on the discrete time dynamical system necessary knowledge about fundamental mathematical theories to understand the dynamical nature of continuous time models The book includes popular topics in ecology and mathematical biology as well as classic theoretical topics By understanding the biological meaning of modeling for simple models readers will be able to derive a specific mathematical model for a biological problem by reasonable modeling The contents of this book is made accessible for readers without strong Mathematical background

Biomathematical Modeling Olcay Akman, Christopher Hay-Jahans, 2025-05-19 Welcome to the fascinating intersection of mathematics biology and ecology This book is intended primarily as a resource for teachers planning to teach their first introductory course on modeling in mathematical biology and or ecology This being said it can also be used by students preparing to embark on an independent studies project in one of these fields or by researchers unfamiliar with the methods or software introduced who are seeking an accessible and quick introduction to one of the methods and or software presented here or by curious biologists ecologists or mathematicians who may be unfamiliar with the other side or maybe by the perpetual learner who is intrigued by the dynamics of living ecosystems For each of the above this book is designed to be an accessible introduction to the captivating landscape of biomathematics The approach used in this book takes advantage of technology in leading readers on a journey that bridges seemingly distinct fields through introductions to three methods and software platforms Compartmental models with Berkeley Madonna agent based models with NetLogo and cluster analysis through selforganizing maps using an R Shiny app This is not intended to be a textbook though it may be used as one nor is it a purely mathematics book or one purely about deeper aspects of biology or ecology It focuses on three selected ways in which the intersection of mathematics and biology and mathematics and ecology can be explored with the help of software Moreover the manner in which the content is presented makes it possible to use this book to help prepare for an introductory course at a wide range of levels depending on the discipline within which the course is taught and the mathematical prerequisites for the course There are four chapters the first of which presents the reader with a bit of background information followed by suggestions on how to get the most out of this book The three core chapters introduce the three

previously mentioned methods and software in a manner envisioned to be accessible to most

Oxford Textbook of Global Public Health Roger Detels, Quarraisha Abdool Karim, Fran Baum, Liming Li, Alastair H. Leyland, 2022 Invaluable for all practitioners trainees and students of public health and epidemiology the Oxford Textbook of Global Public Health covers the scope methods and practice of public health and has been comprehensively updated for its seventh edition

The Top Ten Diseases of All Time Stacey Smith?, 2023-10-24 Infectious diseases have been with us for millennia and continue to pose a threat from the irritation of flu season to the potential extinction of our species We instinctively fear them and alter our behaviour as a result The reason we bury bodies six feet deep is because that was the depth that stopped plague transmission from the dead in the Middle Ages Many religious practices such as avoiding certain meats were established because of foodborne disease transmission In The Top Ten Diseases of All Time Stacey Smith presents the top ten deadliest diseases and their effects on society providing a wealth of information about the trajectory and terrible impact of each disease and humanity's reaction to these diseases throughout the millennia Did you know for example that The medical symbol evolved from the worms wrapped around a stick because that was the only way to remove Guinea worms from the body so having a stick meant you were a doctor Smallpox is the third worst disease ever yet it remains the only successfully eradicated human disease but not for long thanks in part to a successful vaccine in part to photographic recognition cards and in part due to helicopter led forced vaccinations of whole villages in the former Yugoslavia This brings up issues of individual rights versus public good that remain relevant today Four diseases were targeted for eradication in the 20th century the failure to do so led directly to the creation of the environmental movement The inability of priests to explain how to stop the plague in the Middle Ages broke the back of the church as an all powerful and all knowing institution and led to colonialism and slavery The Top Ten Diseases of All Time offers a fascinating overview of the deadliest diseases to spread throughout the world including HIV AIDS Spanish Flu Measles The Black Death Smallpox and others

Mathematical Modeling in Economics, Ecology and the Environment Natali Hritonenko, Yuri Yatsenko, 2014-01-08 Updated to textbook form by popular demand this second edition discusses diverse mathematical models used in economics ecology and the environmental sciences with emphasis on control and optimization It is intended for graduate and upper undergraduate course use however applied mathematicians industry practitioners and a vast number of interdisciplinary academics will find the presentation highly useful Core topics of this text are Economic growth and technological development Population dynamics and human impact on the environment Resource extraction and scarcity Air and water contamination Rational management of the economy and environment Climate change and global dynamics The step by step approach taken is problem based and easy to follow The authors aptly demonstrate that the same models may be used to describe different economic and environmental processes and that similar investigation techniques are applicable to analyze various models Instructors will appreciate the substantial flexibility that this text allows while designing their own syllabus Chapters are

essentially self contained and may be covered in full in part and in any order Appropriate one and two semester courses include but are not limited to Applied Mathematical Modeling Mathematical Methods in Economics and Environment Models of Biological Systems Applied Optimization Models and Environmental Models Prerequisites for the courses are Calculus and preferably Differential Equations **The Routledge Handbook of Philosophy of Scientific Modeling** Tarja

Knuuttila, Natalia Carrillo, Rami Koskinen, 2024-09-05 Models and modeling have played an increasingly important role in philosophy going back to the nineteenth century While philosophical interest in models has been remarkably lively over the last two decades there are still many underexplored questions The Routledge Handbook of Philosophy of Scientific Modeling is an outstanding reference source and guide to this fast growing area and is the first volume of its kind Comprised of 40 specially commissioned chapters by an international team of contributors the Handbook is organized into five clear parts Historical and General Perspectives Philosophical Accounts of Modeling Methodological Aspects Model Construction Evaluation and Calibration Related Topics Modeling in the Wild Within these parts the Handbook covers a diverse range of topics including historical perspectives on modeling the relationship between models theories representation idealization and understanding and related topics like big data simulation and statistical and computational modeling Different kinds of models are discussed for example network models financial models and climate and synthetic models The Routledge Handbook of Philosophy of Scientific Modeling is essential reading for students and scholars of philosophy of science formal epistemology and philosophy of social sciences It is also a valuable resource for those in related fields such as computer science and information technology X-Risk Thomas Moynihan, 2020-10-20 How humanity came to contemplate its possible extinction From forecasts of disastrous climate change to prophecies of evil AI superintelligences and the impending perils of genome editing our species is increasingly concerned with the prospects of its own extinction With humanity's future on this planet seeming more insecure by the day in the twenty first century existential risk has become the object of a growing field of serious scientific inquiry But as Thomas Moynihan shows in X Risk this preoccupation is not exclusive to the post atomic age of global warming and synthetic biology Our growing concern with human extinction itself has a history Tracing this untold story Moynihan revisits the pioneers who first contemplated the possibility of human extinction and stages the historical drama of this momentous discovery He shows how far from being a secular reprise of religious prophecies of apocalypse existential risk is a thoroughly modern idea made possible by the burgeoning sciences and philosophical tumult of the Enlightenment era In recollecting how we first came to care for our extinction Moynihan reveals how today's attempts to measure and mitigate existential threats are the continuation of a project initiated over two centuries ago which concerns the very vocation of the human as a rational responsible and future oriented being

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