Mathematical Models for the Growth of Human Populations

J. H. Pollard

Mathematical Models For The Growth Of Human Populations

John Hurlstone Pollard

Mathematical Models For The Growth Of Human Populations:

Mathematical Models for the Growth of Human Populations John Hurlstone Pollard,1973 **Mathematical Models for the Growth of Human Populations** Pollard J. H.,1975 **Mathematical Models for the Growth of Human Populations** John Hurlstone Pollard (statistica),1975 *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 **Mathematical Models in Cell Biology and Cancer Chemotherapy** M. Eisen,2013-03-13 The purpose of this book is to show how mathematics can be applied to improve cancer chemotherapy Unfortunately most drugs used in treating cancer kill both normal and abnormal cells However more cancer cells than normal cells can be destroyed by the drug because tumor cells usually exhibit different growth kinetics than normal cells To capitalize on this last fact cell kinetics must be studied by formulating mathematical models of normal and abnormal cell growth These models allow the therapeutic and harmful effects of cancer drugs to be simulated quantitatively The combined cell and drug models can be used to study the effects of different methods of administering drugs The least harmful method of drug administration according to a given criterion can be found by applying optimal control theory The prerequisites for reading this book are an elementary knowledge of ordinary differential equations probability statistics and linear algebra In order to make this book self contained a chapter on cell biology and a chapter on control theory have been included Those readers who have had some exposure to biology may prefer to omit Chapter I Cell Biology and only use it as a reference when required However few biologists have been exposed to control theory Chapter 7 provides a short coherent and comprehensible presentation of this subject The concepts of control theory are necessary for a full understanding of Chapters 8 and 9 **Mathematical Models for Communicable Diseases** Fred Brauer,Carlos Castillo-Chavez,2013-02-07 A self contained and comprehensive guide to the mathematical modeling of disease transmission appropriate for graduate students **The Dynamics of Physiologically Structured Populations** Johan A. Metz,Odo Diekmann,2014-03-11 Modeling Multigroup Populations Robert Schoen,1987-10-31 This book deals with models that can capture the behavior of individuals and groups over time Organizationally it is divided into three parts Part I discusses the basic decrement only life table and its associated stable population Part II examines multistate or increment decrement models and provides the first

comprehensive treatment of those extremely flexible and useful life table models Part III looks at two sex models which simultaneously incorporate the marriage or fertility behavior of males and females Those models are explored more fully and completely here than has been the case to date and the importance of including the experience of both sexes is demonstrated analytically as weil as empirically In sum this book considers a broad range of population models with a view to showing that such models can be eminently calculable clearly interpretable and analytically valuable for the study of many kinds of social behavior Four appendixes have been added to make the book more usable Appendix A provides abrief introduction to calculus and matrix algebra so that readers can understand though not necessarily derive the equations presented Appendix B provides an index of the principal symbols used Appendix C gives the answers to the exercises found at the end of each chapter Those exercises should be seen as an extension of the text and are intended to inform as weil as to challenge

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 Depart mental colleagues E Polak and A J Thomasian who guided me into the litera ture 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   Stochastic Processes in Demography and Their Computer Implementation C.J. Mode,2012-12-06 According to a recent report of the United States Census Bureau world population as of June 30 1983 was estimated at about 4 7 billion people of this total an estimated 82 million had been added in the previous year World population in 1950 was estimated at about 2 5 billion consequently if 82 million poeple are added to the world population in each of the coming four years population size will be double that of 1950 Another way of viewing the yearly increase in world population is to compare it to 234 million the estimated current population of the United States If the excess of births over deaths continues a group of young people equivalent to the population of the United States will be added to the world population about every 2 85 years Although the rate of increase in world population has slowed since the midsixties it seems likely that large numbers of infants will be added to the population each year for the foreseeable future A large current world population together with a high likelihood

of sub stantial increments in size every year has prompted public and scholarly recognition of population as a practical problem Tangible evidence in the public domain that population is being increasingly viewed as a problem is provided by the fact that many governments around the world either have or plan to implement policies regarding population Evidence of scholarly concern is provided by an increasing flow of publications dealing with population **Demography - Volume II** Zeng Yi,2010-11-30 Zeng Yi is a Professor at the Center for the Study of Aging and Human Development and Geriatric Division Dept of Medicine of Medical School and Institute of Population Research and Dept of Sociology Duke University He is also a Professor at the China Center for Economic Research National School of Development at Peking University in China and Distinguished Research Scholar of the Max Planck Institute for Demographic Research MPIDR in Germany He received his doctoral degree from Brussels Free University in May 1986 and conducted post doctoral study at Princeton University in 1986 87 Up to Feb 2008 he has had 81 professional articles written in English published in academic journals or as book chapters in the United States and Europe among them 51 articles were published in anonymous peer reviewed academic journals He has had 85 professional articles written in Chinese and published in China among them 55 articles were published in national top Chinese academic journals He has published sixteen books including five research books as first author such as Family Dynamics in China published by the University of Wisconsin Press one textbook on demographic methods as the sole author two volumes of demographic software and user s manuals as the first author on family status life table analysis six edited books four as the chief editor and two as the second editor such as the 2005 and 2008 books published by Springer for which he served as the chief editor Six of Zeng Yi s published books were written in English one was written in both Chinese and English and the remainders were written in Chinese Zeng Yi has been awarded more than ten national and international academic prizes such as the Dorothy Thomas Prize of the Population Association of America the Harold D Lasswell Prize in Policy Science awarded by the international journal Policy Sciences and Kluwer Academic Publishers the second class prize for advancement of science and technology awarded by the State Sciences and Technology Commission of China the first class prize for advancement of science and technology awarded by the State Education Commission and the highest academic honor of Peking University Prize for Outstanding Contributions in Sciences According to the search report up to March 1 2008 the internationally most important literature sources SSCI Social Science Citation Index and SCI Science Citation Index published in the U S indicate that Zeng Yi s articles and books have been cited in 755 journal articles by authors other than Zeng Yi Among them 440 citations refer to the work of Zeng Yi as the first author 315 citations refer to the work of Zeng Yi as a co author Zeng Yi is one of the authors of High Impact Papers worldwide in the period of 1981 1998 as announced by International Scientific Institute ISI in September 2000 Mathematical and Statistical Approaches to AIDS Epidemiology Carlos Castillo-Chavez,2013-03-13 The 18 research articles of this volume discuss the major themes that have emerged from mathematical and statistical research in the epidemiology of HIV The

opening paper reviews important recent contributions Five sections follow Statistical Methodology and Forecasting Infectivity and the HIV Heterogeneity and HIV Transmission Dynamics Social Dynamics and AIDS and The Immune System and The HIV In each leading experts in AIDS epidemiology present the recent results Some address the role of variable infectivity heterogeneous mixing and long periods of infectiousness in the dynamics of HIV others concentrate on parameter estimation and short term forecasting The last section looks at the interaction between the HIV and the immune system

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

Mathematical Ecology Thomas G. Hallam,Simon A. Levin,2012-12-06 There isprobably no more appropriate location to hold a course on mathematical ecology than Italy the countryofVito Volterra a founding father ofthe subject The Trieste 1982Autumn Course on Mathematical Ecology consisted of four weeksofvery concentrated scholasticism and aestheticism The first weeks were devoted to fundamentals and principles ofmathematicalecology A nucleusofthe material from the lectures presented during this period constitutes this book The final week and a half of the Course was apportioned to the Trieste Research Conference on Mathematical Ecology whose proceedings have been published as Volume 54 Lecture Notes in Biomathematics Springer Verlag The objectivesofthe first portionofthe course wereambitious and probably unattainable Basic principles of the areas of physiological population com munitY and ecosystem ecology that have solid ecological and mathematical foundations were to be presented Classical terminology was to be introduced important fundamental topics were to be developed some past and some current problems of interest were to be presented and directions for possible research were to be provided Due to time constraints the coverage could not be encyclopedic many areas covered already

have merited treatises of book length Consequently preliminary foundation material was covered in some detail but subject overviewsand area syntheseswerepresented when research frontiers were being discussed These lecture notes reflect this course philosophy   **Mathematical Models of Conception and Birth** Mindel C. Sheps,Jane A. Menken,Jane Menken,Annette P. Radick,1973   Dynamical System Models In The Life Sciences And Their Underlying Scientific Issues Frederic Y M Wan,2017-08-16 Broadly speaking there are two general approaches to teaching mathematical modeling 1 the case study approach and 2 the method based approach that teaches mathematical techniques with applications to relevant mathematical models This text emphasizes instead the scientific issues for modeling different phenomena For the natural or harvested growth of a fish population we may be interested in the evolution of the population whether it reaches a steady state equilibrium or cycle stable or unstable with respect to a small perturbation from equilibrium or whether a small change in the environment would cause a catastrophic change etc Each scientific issue requires an appropriate model and a different set of mathematical tools to extract information from the model Models examined are chosen to help explain or justify empirical observations such as cocktail drug treatments are more effective and regenerations after injuries or illness are fast tracked compared to original developments Volume I of this three volume set limits its scope to phenomena and scientific issues that are modeled by ordinary differential equations ODE Scientific issues such as signal and wave propagation diffusion and shock formation involving spatial dynamics to be modeled by partial differential equations PDE will be treated in Vol II Scientific issues involving randomness and uncertainty are examined in Vol III   Dennis G. Zill,Warren S. Wright,2009-12-21 Now with a full color design the new Fourth Edition of Zill s Advanced Engineering Mathematics provides an in depth overview of the many mathematical topics necessary for students planning a career in engineering or the sciences A key strength of this text is Zill s emphasis on differential equations as mathematical models discussing the constructs and pitfalls of each The Fourth Edition is comprehensive yet flexible to meet the unique needs of various course offerings ranging from ordinary differential equations to vector calculus Numerous new projects contributed by esteemed mathematicians have been added New modern applications and engaging projects makes Zill s classic text a must have text and resource for Engineering Math students   An Introduction to Mathematical Models in the Social and Life Sciences Michael Olinick,1978   **ERDA Energy Research Abstracts** United States. Energy Research and Development Administration,1976   *Advanced Engineering Mathematics* Dennis G. Zill,Michael R. Cullen,2006 Thoroughly Updated Zill S Advanced Engineering Mathematics Third Edition Is A Compendium Of Many Mathematical Topics For Students Planning A Career In Engineering Or The Sciences A Key Strength Of This Text Is Zill S Emphasis On Differential Equations As Mathematical Models Discussing The Constructs And Pitfalls Of Each The Third Edition Is Comprehensive Yet Flexible To Meet The Unique Needs Of Various Course Offerings Ranging From Ordinary Differential Equations To Vector Calculus Numerous New Projects Contributed By Esteemed Mathematicians Have Been Added Key Features O The Entire Text Has

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