

Mathematical Models for the Growth of Human Populations

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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 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 well 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 a brief 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 well as to challenge

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

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

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 people 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 sixties 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 substantial 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.

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Table of Contents Mathematical Models For The Growth Of Human Populations

1. Understanding the eBook Mathematical Models For The Growth Of Human Populations
 - The Rise of Digital Reading Mathematical Models For The Growth Of Human Populations
 - Advantages of eBooks Over Traditional Books
2. Identifying Mathematical Models For The Growth Of Human Populations
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Mathematical Models For The Growth Of Human Populations
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mathematical Models For The Growth Of Human Populations
 - Personalized Recommendations
 - Mathematical Models For The Growth Of Human Populations User Reviews and Ratings
 - Mathematical Models For The Growth Of Human Populations and Bestseller Lists
5. Accessing Mathematical Models For The Growth Of Human Populations Free and Paid eBooks
 - Mathematical Models For The Growth Of Human Populations Public Domain eBooks
 - Mathematical Models For The Growth Of Human Populations eBook Subscription Services
 - Mathematical Models For The Growth Of Human Populations Budget-Friendly Options

6. Navigating Mathematical Models For The Growth Of Human Populations eBook Formats
 - ePub, PDF, MOBI, and More
 - Mathematical Models For The Growth Of Human Populations Compatibility with Devices
 - Mathematical Models For The Growth Of Human Populations Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mathematical Models For The Growth Of Human Populations
 - Highlighting and Note-Taking Mathematical Models For The Growth Of Human Populations
 - Interactive Elements Mathematical Models For The Growth Of Human Populations
8. Staying Engaged with Mathematical Models For The Growth Of Human Populations
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mathematical Models For The Growth Of Human Populations
9. Balancing eBooks and Physical Books Mathematical Models For The Growth Of Human Populations
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mathematical Models For The Growth Of Human Populations
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Mathematical Models For The Growth Of Human Populations
 - Setting Reading Goals Mathematical Models For The Growth Of Human Populations
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mathematical Models For The Growth Of Human Populations
 - Fact-Checking eBook Content of Mathematical Models For The Growth Of Human Populations
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

-
- Interactive and Gamified eBooks

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