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Preceded by: *Population health / David B. Nash ... [et al.]. c2011. Population dynamics is an important subject in mathematical biology. A central problem is to study the long-term behavior of modeling systems. Most of these systems are governed by various evolutionary equations such as difference, ordinary, functional, and partial differential equations (see, e. g. , [165, 142, 218, 119,*

55]). As we know, interactive populations often live in a fluctuating environment. For example, physical environmental conditions such as temperature and humidity and the availability of food, water, and other resources usually vary in time with seasonal or daily variations. Therefore, more realistic models should be nonautonomous systems. In particular, if the data in a model are periodic functions of time with commensurate period, a periodic system arises; if these periodic functions have different (minimal) periods, we get an almost periodic system. The existing reference books, from the dynamical systems point of view, mainly focus on autonomous biological systems. The book of Hess [106J is an excellent reference for periodic parabolic boundary value problems with applications to population dynamics. Since the publication of this book there have been extensive investigations on periodic, asymptotically periodic, almost periodic, and even general nonautonomous biological systems, which in turn have motivated further development of the theory of dynamical systems. In order to explain the dynamical systems approach to periodic population problems, let us consider, as an illustration, two species periodic competitive systems $dU_i/dt = f_i(t, U_1, U_2)$, $f_i(0) = 0$. This book addresses nine relevant questions: Will population growth reduce the growth rate of per capita income because it reduces the per capita availability of exhaustible resources? How about for renewable resources? Will population growth aggravate degradation of the natural environment? Does more rapid growth reduce worker output and consumption? Do rapid growth and greater density lead to productivity gains through scale economies and thereby raise per capita income? Will rapid population growth reduce per capita levels of education and health? Will it increase inequality of income distribution? Is it an important source of labor problems and city population absorption? And, finally, do the economic effects of population growth justify government programs to reduce fertility that go beyond the provision of family planning services? The United Nations population estimates and projections form a comprehensive set of demographic data to assess population trends at the global, regional and national levels. They are used in the calculation of many of the key development indicators commonly used by the United Nations system, including for more than one third of the indicators used to monitor progress towards the achievement of the Sustainable Development Goals. The 2019 revision of the World Population Prospects is the twenty-sixth edition of the official United Nations population estimates and projections, which have been prepared since 1951 by the Population Division of the Department of Economic and Social Affairs. The 2019 revision presents population estimates from 1950 until the present for 235 countries or areas, which have been developed through country-specific analyses of historical demographic trends. It builds on previous revisions by incorporating additional results from the 2010 and 2020 rounds of national population censuses as well as information from vital registration and recent nationally representative household sample surveys. The 2019 revision also presents population projections to the year 2100 that reflect a range of plausible outcomes at the global, regional and country levels. These Highlights summarise key population trends described by the estimates and projections presented in World Population Prospects 2019. In the United States, some populations suffer from far greater disparities in health than others. Those disparities are caused not only by fundamental differences in health status across segments of the population, but also because of inequities in factors that impact health status, so-called determinants of health. Only part of an individual's health status depends on his or her behavior and choice; community-wide problems like poverty, unemployment, poor education, inadequate housing, poor public transportation, interpersonal violence, and decaying neighborhoods also contribute to health inequities, as well as the historic and ongoing interplay of structures, policies, and norms that shape lives. When these factors are not optimal in a community, it does not mean they are intractable: such inequities can be mitigated by social policies that can shape health in powerful ways. Communities in Action: Pathways to Health Equity seeks to delineate the causes of and the solutions to health inequities in the United States. This report focuses on what communities can do to promote health equity, what actions are needed by the many and varied stakeholders that are part of communities or support them, as well as the root causes and structural barriers that need to be overcome. The anthrax incidents following the 9/11 terrorist attacks put the spotlight on the nation's public health agencies, placing it under an unprecedented scrutiny that added new dimensions to the complex issues considered in this report. The Future of the Public's Health in the 21st Century reaffirms the vision of Healthy People 2010, and outlines a systems approach to assuring the nation's health in practice, research, and policy. This approach focuses on joining the unique resources and perspectives of diverse sectors and entities and challenges these groups to work in a concerted, strategic way to promote and protect the public's health. Focusing on diverse partnerships as the framework for public health, the book discusses: The need for a shift from an individual to a population-based approach in practice, research, policy, and community engagement. The status of the governmental public health infrastructure and what needs to be improved, including its interface with the health care delivery system. The roles nongovernment actors, such as academia, business, local communities and the media can play in creating a healthy nation. Providing an accessible analysis, this book will be important to public health policy-makers and practitioners, business and community leaders, health advocates, educators and journalists. Concepts of Biology is designed for the single-semester introduction to biology course for non-science majors, which for many students is their only college-level science course. As such, this course represents an important opportunity for students to develop the necessary knowledge, tools, and skills to make informed decisions as they continue with their lives. Rather than being mired down with facts and vocabulary, the typical non-science major student needs information presented in a way that is easy to read and understand. Even more importantly, the content should be meaningful. Students do much better when they understand why biology is relevant to their everyday lives. For these reasons, Concepts of Biology is grounded on an evolutionary basis and includes exciting features that highlight careers in the biological sciences and everyday applications of the concepts at hand. We also strive to show the interconnectedness of topics within this extremely broad discipline. In order to meet the needs of today's instructors and students, we maintain the overall organization and coverage found in most syllabi for this course. A strength of Concepts of Biology is that instructors can customize the book, adapting it to the approach that works best in their classroom. Concepts of Biology also includes an innovative art program that incorporates critical thinking and clicker questions to help students understand--and apply--key concepts. Biology for AP® courses covers the scope and sequence requirements of a typical two-semester Advanced Placement® biology course. The text provides comprehensive coverage of foundational research and core biology concepts through an evolutionary lens. Biology for AP® Courses was designed to meet and exceed the requirements of the College Board's AP® Biology framework while allowing significant flexibility for instructors. Each section of the book includes an introduction based on the AP® curriculum and includes rich features that engage students in scientific practice and AP® test preparation; it also highlights careers and research opportunities in biological sciences. Dynamics. Does a longer life mean a healthier life? The number of adults over 65 in the United States is growing, but many may not be aware that they are at greater risk from

foodborne diseases and their nutritional needs change as they age. The IOM's Food Forum held a workshop October 29-30, 2009, to discuss food safety and nutrition concerns for older adults. Dr. Timothy Schowalter has succeeded in creating a unique, updated treatment of insect ecology. This revised and expanded text looks at how insects adapt to environmental conditions while maintaining the ability to substantially alter their environment. It covers a range of topics- from individual insects that respond to local changes in the environment and affect resource distribution, to entire insect communities that have the capacity to modify ecosystem conditions. *Insect Ecology, Second Edition*, synthesizes the latest research in the field and has been produced in full color throughout. It is ideal for students in both entomology and ecology-focused programs. **NEW TO THIS EDITION:*** New topics such as elemental defense by plants, chaotic models, molecular methods to measure dispersion, food web relationships, and more* Expanded sections on plant defenses, insect learning, evolutionary tradeoffs, conservation biology and more* Includes more than 350 new references* More than 40 new full-color figures

In this new century mankind faces ever more challenging environmental and public health problems, such as pollution, invasion by exotic species, the emergence of new diseases or the emergence of diseases into new regions (West Nile virus, SARS, Anthrax, etc.), and the resurgence of existing diseases (influenza, malaria, TB, HIV/AIDS, etc.). Mathematical models have been successfully used to study many biological, epidemiological and medical problems, and nonlinear and complex dynamics have been observed in all of those contexts. Mathematical studies have helped us not only to better understand these problems but also to find solutions in some cases, such as the prediction and control of SARS outbreaks, understanding HIV infection, and the investigation of antibiotic-resistant infections in hospitals. Structured population models distinguish individuals from one another according to characteristics such as age, size, location, status, and movement, to determine the birth, growth and death rates, interaction with each other and with environment, infectivity, etc. The goal of structured population models is to understand how these characteristics affect the dynamics of these models and thus the outcomes and consequences of the biological and epidemiological processes. There is a very large and growing body of literature on these topics. This book deals with the recent and important advances in the study of structured population models in biology and epidemiology. There are six chapters in this book, written by leading researchers in these areas. The thoroughly revised & updated 3rd edition of the book 'Samanya Gyan Capsule 2019' offers a variety of information on various subjects in a very precise & crisp format. The various subjects included are History, Geography, Polity, Economy, General Science, Ecology & Environment, Computers, Miscellaneous, Indian Panorama etc. A special section has also been provided on Current Affairs containing the coverage of latest Events, Issues, Ideas & People. The highlighting feature of the book is the collection of the most relevant information and latest authentic DATA useful for all your needs. • The content has been made engaging with the use of Charts, Graphics and Tables.

October 31, 2011, marked an uneasy milestone for Planet Earth. On this day, the global population surpassed seven billion. What does that mean for a world that, until the nineteenth century, was home to less than one billion people? Experts say it means the planet is in trouble. Some wonder if Earth will even be able to sustain human life at its current rate of growth. Will there be enough food for everyone? Will conflicts over land increase? How will the environment be affected? Can humanity survive the predicted disasters? More than a simple case of running out of space, the population crisis is interwoven with a host of other issues—from climate change and resource management to war, disease, and poverty. Discover how all these factors converge to place an entire planet in crisis mode—and explore what sort of responses that crisis may require. As the world's population exceeds an incredible 6 billion people, governments—and scientists—everywhere are concerned about the prospects for sustainable development. The science academies of the three most populous countries have joined forces in an unprecedented effort to understand the linkage between population growth and land-use change, and its implications for the future. By examining six sites ranging from agricultural to intensely urban to areas in transition, the multinational study panel asks how population growth and consumption directly cause land-use change, and explore the general nature of the forces driving the transformations. *Growing Populations, Changing Landscapes* explains how disparate government policies with unintended consequences and globalization effects that link local land-use changes to consumption patterns and labor policies in distant countries can be far more influential than simple numerical population increases. Recognizing the importance of these linkages can be a significant step toward more effective environmental management.

Around 1796, Mr. Malthus, an English gentleman, had finished reading a book that confidently predicted human life would continue to grow richer, more comfortable and more secure, and that nothing could stop the march of progress. He discussed this theme with his son, Thomas, and Thomas ardently disagreed with both his father and the book he had been reading, along with the entire idea of unending human progress. Mr. Malthus suggested that he write down his objections so that they could discuss them point-by-point. Not long after, Thomas returned with a rather long essay. His father was so impressed that he urged his son to have it published. And so, in 1798, appeared *An Essay on Population*, by British political economist and demographer THOMAS ROBERT MALTHUS (1766-1834). Though it was attacked at the time and ridiculed for many years afterward, it has remained one of the most influential works in the English language on the general checks and balances of the world's population and its necessary control. This is a replica of the 1826 sixth edition. Volume 2 includes: Book III: "Of the Different Systems, Which Have Been Proposed or Have Prevailed in Society, As They Affect the Evils Arising from The Principle of Population" and Book IV: "Of our future Prospects respecting the Removal or Mitigation of the Evils arising from the Principle of Population." From The Gallup Organization—the most respected source on the subject—comes a fascinating look at the importance of measuring public opinion in modern society. For years, public-opinion polls have been a valuable tool for gauging the positions of American citizens on a wide variety of topics. Polling applies scientific principles to understanding and anticipating the insights, emotions, and attitudes of society. Now in **POLLING MATTERS: Why Leaders Must Listen to the Wisdom of the People**, The Gallup Organization reveals: What polls really are and how they are conducted Why the information polls provide is so vitally important to modern society today How this valuable information can be used more effectively and more... This book provides cutting-edge results on the existence of multiple positive periodic solutions of first-order functional differential equations. It demonstrates how the Leggett-Williams fixed-point theorem can be applied to study the existence of two or three positive periodic solutions of functional differential equations with real-world applications, particularly with regard to the Lasota-Ważewska model, the Hematopoiesis model, the Nicholson's Blowflies model, and some models with Allee effects. Many interesting sufficient conditions are given for the dynamics that include nonlinear characteristics exhibited by population models. The last chapter provides results related to the global appeal of solutions to the models considered in the earlier chapters. The techniques used in this book can be easily understood by anyone with a basic

knowledge of analysis. This book offers a valuable reference guide for students and researchers in the field of differential equations with applications to biology, ecology, and the environment. A revised edition of an established text on human growth and development from an anthropological and evolutionary perspective. This book emphasizes that artificial or pseudo-populations play an important role in statistical surveys from finite universes in two manners: firstly, the concept of pseudo-populations may substantially improve users' understanding of various aspects in the sampling theory and survey methodology; an example of this scenario is the Horvitz-Thompson estimator. Secondly, statistical procedures exist in which pseudo-populations actually have to be generated. An example of such a scenario can be found in simulation studies in the field of survey sampling, where close-to-reality pseudo-populations are generated from known sample and population data to form the basis for the simulation process. The chapters focus on estimation methods, sampling techniques, nonresponse, questioning designs and statistical disclosure control. This book is a valuable reference in understanding the importance of the pseudo-population concept and applying it in teaching and research. This solid introduction uses the principles of physics and the tools of mathematics to approach fundamental questions of neuroscience. Discusses how many people the earth can support in terms of economic, physical, and environmental aspects. Monitoring Plant and Animal Populations offers an overview of population monitoring issues that is accessible to the typical field biologist and land managers with a modest statistical background. The text includes concrete guidelines for ecologists to follow to design a statistically defensible monitoring program. User-friendly, practical guide, written in a highly readable format. The authors provide an interdisciplinary scope to address the current, widespread interest in monitoring in many environmental fields, including pure and applied ecology, conservation biology, and wildlife management. Emphasizes the role of monitoring in adaptive management. Defines important terminology and contrasts monitoring with other data-collection activities. Covers the applicable principles of sampling and shows how to design a monitoring project. Provides a step-by-step overview of the monitoring process, illustrated by flow charts and references. The authors also offer guidelines for analyzing and interpreting monitoring data. Illustrates the foundation of management objectives and describes their components, types, and development. Describes common field techniques for measuring important attributes of animal and plant populations. Reviews different methods for recording monitoring data in the field, managing the data, and communicating data to policy makers. This original and panoramic book proposes that the underlying forces of demography and globalisation will shortly reverse three multi-decade global trends – it will raise inflation and interest rates, but lead to a pullback in inequality. “Whatever the future holds”, the authors argue, “it will be nothing like the past”. Deflationary headwinds over the last three decades have been primarily due to an enormous surge in the world's available labour supply, owing to very favourable demographic trends and the entry of China and Eastern Europe into the world's trading system. This book demonstrates how these demographic trends are on the point of reversing sharply, coinciding with a retreat from globalisation. The result? Ageing can be expected to raise inflation and interest rates, bringing a slew of problems for an over-indebted world economy, but is also anticipated to increase the share of labour, so that inequality falls. Covering many social and political factors, as well as those that are more purely macroeconomic, the authors address topics including ageing, dementia, inequality, populism, retirement and debt finance, among others. This book will be of interest and understandable to anyone with an interest on where the world's economy may be going. The U.S. population is aging. Social Security projections suggest that between 2013 and 2050, the population aged 65 and over will almost double, from 45 million to 86 million. One key driver of population aging is ongoing increases in life expectancy. Average U.S. life expectancy was 67 years for males and 73 years for females five decades ago; the averages are now 76 and 81, respectively. It has long been the case that better-educated, higher-income people enjoy longer life expectancies than less-educated, lower-income people. The causes include early life conditions, behavioral factors (such as nutrition, exercise, and smoking behaviors), stress, and access to health care services, all of which can vary across education and income. Our major entitlement programs - Medicare, Medicaid, Social Security, and Supplemental Security Income - have come to deliver disproportionately larger lifetime benefits to higher-income people because, on average, they are increasingly collecting those benefits over more years than others. This report studies the impact the growing gap in life expectancy has on the present value of lifetime benefits that people with higher or lower earnings will receive from major entitlement programs. The analysis presented in *The Growing Gap in Life Expectancy by Income* goes beyond an examination of the existing literature by providing the first comprehensive estimates of how lifetime benefits are affected by the changing distribution of life expectancy. The report also explores, from a lifetime benefit perspective, how the growing gap in longevity affects traditional policy analyses of reforms to the nation's leading entitlement programs. This in-depth analysis of the economic impacts of the longevity gap will inform debate and assist decision makers, economists, and researchers. Population ecology has matured to a sophisticated science with astonishing potential for contributing solutions to wildlife conservation and management challenges. And yet, much of the applied power of wildlife population ecology remains untapped because its broad sweep across disparate subfields has been isolated in specialized texts. In this book, L. Scott Mills covers the full spectrum of applied wildlife population ecology, including genomic tools for non-invasive genetic sampling, predation, population projections, climate change and invasive species, harvest modeling, viability analysis, focal species concepts, and analyses of connectivity in fragmented landscapes. With a readable style, analytical rigor, and hundreds of examples drawn from around the world, *Conservation of Wildlife Populations* (2nd ed) provides the conceptual basis for applying population ecology to wildlife conservation decision-making. Although targeting primarily undergraduates and beginning graduate students with some basic training in basic ecology and statistics (in majors that could include wildlife biology, conservation biology, ecology, environmental studies, and biology), the book will also be useful for practitioners in the field who want to find - in one place and with plenty of applied examples - the latest advances in the genetic and demographic aspects of population ecology. Additional resources for this book can be found at: www.wiley.com/go/mills/wildlifepopulations.

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