Population Biology Reinforcement And Study Guide

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A Population Reader Sinauer Associates, Incorporated
This text, which has been adopted as an Open University course textbook, examines the ecological processes that determine the size and structure of a population, and demonstrates that there are many fundamental principles that apply to populations of both animals and plants.

Speciation and Its Consequences Johns Hopkins University Press
This 2004 collection of essays deals with the foundation and historical development of population biology and its relationship to population genetics and population ecology on the one hand and to the rapidly growing fields of molecular quantitative genetics, genomics and bioinformatics on the other. Such an interdisciplinary treatment of population biology has never been attempted before. The volume is set in a historical context, but it has an up-to-date coverage of material in various related fields. The areas covered are the foundation of population biology, life history evolution and demography, density and frequency dependent selection, recent advances in quantitative genetics and bioinformatics, evolutionary case history of model organisms focusing on polymorphisms and selection, mating system evolution and evolution in the hybrid zones, and applied population biology including conservation, infectious diseases and human diversity. This is the third of three volumes published in honour of Richard Lewontin.

Population Dynamics Walter de Gruyter
Personal Prefaces, Paul R. Ehrlich and Ilkka Hanski. 1. Checkerspot Research: Background and Origins, Paul R. Ehrlich and Ilkka Hanski. 2. Introducing Checkerspots: Taxonomy and Research, Dennis D. Murphy, Niklas Wahlberg, Ilkka Hanski, Paul R. Ehrlich. 3. Structure and Dynamics of Euphydryas edith Populations, Jessica J. Hellmann, Stuart B. Weiss, John F. McLaughlin, Paul R. Ehrlich, Dennis D. Murhpy, and Alan E. Launer. 4. Structure and Dynamics of Melitea cinxia Metapopulations. 5. Checkerspot Reproductive Biology, Carol L. Boggs and Marko Nieminen. 6. Oviposition Preference: Its Measuremen.

Viable Populations for Conservation Oxford University Press, USA
Population biology has been investigated quantitatively for many decades, resulting in a rich body of scientific literature. Ecologists often avoid this literature, put off by its apparently formidable mathematics. This textbook provides an introduction to the biology and ecology of populations by emphasizing the roles of simple mathematical models in explaining the growth and behavior of populations. The author only assumes acquaintance with elementary calculus, and provides tutorial explanations where needed to develop mathematical concepts. Examples, problems, extensive marginal notes and numerous graphs enhance the book's value to students in classes ranging from population biology and population ecology to mathematical biology and mathematical ecology. The book will also be useful as a supplement to introductory courses in ecology.

Case Studies in Population Biology ScholarlyEditions
This curriculum unit for grades 6-8 integrates population biology and mathematics. The ill-structured problem puts students in the stakeholder role of assistant to the mayor of a small town in which residents are demanding that something be done about the deer that are eating their landscaped plants. Throughout the unit, students deal with physical models, conceptual models, and mathematical models as they tackle the deer problem and the complication of Lyme Disease. This curriculum unit for grades 6-8 integrates population biology and mathematics. The ill-structured problem puts students in the stakeholder role of assistant to the mayor of a small town in which residents are demanding that something be done about the deer that are eating their landscaped plants. Throughout the unit, students deal with physical models, conceptual models, and mathematical models as they tackle the deer problem and the complication of Lyme Disease.

Issues in Biological and Life Sciences Research: 2012 Edition Oxford University Press
Issues in Biological and Life Sciences Research: 2012 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Life Science Research. The editors have built Issues in Biological and Life Sciences Research: 2012 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Life Science Research in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in Biological and Life Sciences Research: 2012 Edition has been produced by the world ' s leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at http://www.ScholarlyEditions.com/.

Reintroduction of Fish and Wildlife Populations John Wiley & Sons
Highlighting the growing importance of the sticklebacks as a model species in emerging fields such as molecular genetics, genomics, and environmental toxicology, Biology of the Three-Spined Stickleback examines data from researchers who use studies of the stickleback to address a wide range of biological issues. This state-of-the-art volume

Population Ecology John Wiley & Sons
This volume features an important collection of review articles highlighting the top science and developments in the field of evolutionary biology. NOTE: Annals volumes are available for sale as individual books or as a journal. For information on institutional journal subscriptions, please visit www.blackwellpublishing.com/nyas. ACADEMY MEMBERS: Please contact the New York Academy of Sciences directly to place your order (www.nyas.org). Members of the New York Academy of Science receive full-text access to the Annals online and discounts on print volumes. Please visit http://www.nyas.org/MemberCenter/Join.aspx for more information about becoming a member.

Biology for AP ® Courses Cambridge University Press
With a strong emphasis on applications of intelligent control, this extremely accessible book covers the fundamentals, methodologies, architectures and algorithms of automatic control systems. The author summarizes several current concepts to improve industrial control systems, combining classical control techniques of dynamic modeling and control with new approaches discussed in the text. Addresses such intelligent systems as neural networks, fuzzy logic, ruled based, and genetic algorithms. Demonstrates how to develop, design and use intelligent systems to solve sophisticated industrial control problems. Includes numerous worked application examples.

Population Ecology Univ of California Press
Population biology has been investigated quantitatively for many decades, resulting in a rich body of scientific literature. Ecologists often avoid this literature, being put off by its apparently formidable mathematics. This textbook provides an introduction to the biology and ecology of populations by emphasizing the roles of simple mathematical models in explaining the growth and behavior of populations. The author only assumes acquaintance with elementary calculus, and provides tutorial explanations where needed to develop mathematical concepts. Examples, problems, extensive marginal notes and numerous graphs enhance the book's value to students in classes ranging from population biology and population ecology to introductory courses in ecology.

Water Resources Research Catalog Walter de Gruyter GmbH & Co KG
This unique collection of essays deals with the foundation and historical development of population biology and its relationship to population genetics and population ecology on the one hand and to the rapidly growing fields of molecular quantitative genetics, genomics and bioinformatics on the other. Published in honor of Richard Lewontin.

Population Biology and Evolution of Clonal Organisms Sinauer Associates, Incorporated
Evolutionary biology has long sought to explain how new traits and new species arise. Darwin maintained that competition is key to understanding this biodiversity and held that selection acting to minimize competition causes competitors to become increasingly different, thereby promoting new traits and new species. Despite Darwin ' s emphasis, competition ' s role in diversification remains controversial and largely underappreciated. In their synthetic and provocative book, evolutionary ecologists David and Karin Pfennig explore competition's role in generating and maintaining biodiversity. The authors discuss how selection can lessen resource competition or costly reproductive interactions by promoting trait evolution through a process known as character displacement. They further describe character displacement ' s underlying genetic and developmental mechanisms. The authors then consider character displacement ' s myriad downstream effects, ranging from shaping ecological communities to promoting new traits and new species and even fueling large-scale evolutionary trends. Drawing on numerous studies from natural populations, and written for a broad audience, Evolution ' s Wedge seeks to inspire future research into character displacement ' s many implications for ecology and evolution.

Animal Population Dynamics CRC Press
Revised and updated, containing over 5,000 entries, with over 1,100 more entries than in the previous edition, Animal Behavior Desk Reference, Second Edition: A Dictionary of Behavior, Ecology, and Evolution provides definitions for terms in animal behavior, biogeography, evolution, ecology, genetics, psychology, statistics, systematics, and other

Population Biology WCB/McGraw-Hill
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.

Population Ecology CRC Press
Reintroduction of Fish and Wildlife Populations provides a practical step-by-step guide to successfully planning, implementing, and evaluating the reestablishment of animal populations in former habitats or their introduction in new environments. In each chapter, experts in reintroduction biology outline a comprehensive synthesis of core concepts, issues, techniques, and perspectives. This manual and reference supports scientists and managers from fisheries and

wildlife professions as they plan reintroductions, initiate releases of individuals, and manage restored populations over time. Covering a broad range of taxonomic groups, ecosystems, and global regions, this edited volume is an essential guide for academics, students, and professionals in natural resource management.

Population Ecology: a Unified Study of Animals and Plants Sinauer Associates, Incorporated

This book outlines concepts such as population variability, population stability, population viability and persistance, and harvest yield. Also addressed are specific applications to conservation such as managing species at risk, fishery management, and the spatial manageement of marine resources.--Adapted from back cover.

Industrial Intelligent Control Univ of California Press

Despite various studies carried out by scientific centres for population biology research in the USSR, many findings remain unknown to Western scientists. This collection of reviews on population biology in the USSR, attempts to remedy the situation. The areas covered include surveys of animal population biology studies - population genetics, population ecology and ecophysiology, population ethology, population cytogenetics, and population radioecology. Also explored are the population biology of amphibians and invertebrates, the population biology of the lower taxa - plants, protists, and microorganisms, and some general problems of population biology.

Animal Behavior Desk Reference CRC Press

This book addresses research in the rapidly developing integration of conservation biology with population biology.

Population Biology and Evolution of Clonal Organisms Privat

A foundational text on animal population conservation featuring practical applications and case studies. The study of animal populations is integral to wildlife ecology and conservation. Analyzing population biology data can help facilitate the recovery of threatened species, manage overabundant species, and ensure sustainable levels of harvest. But for many students, the complex math involved is a barrier to understanding the importance of the data's applications. The emphasis on solving mathematical problems in traditional population biology texts may also seem far removed from the heart of conservation work that students find most compelling. The Biology and Conservation of Animal Populations is built differently. It provides a thorough introduction to this fundamental science in an accessible context that centers conservation, not equations. This textbook, written by prominent conservation scientist, author, and wolf biologist John A. Vucetich, challenges students to think critically about big questions in conservation work—such as what does and does not count as an endangered species and why—and addresses these issues using practical examples and case studies. The crucial mathematics concepts needed to fully understand these issues are explained by directly connecting the equations with their use in efforts to conserve animal populations. Included in the text are explicit learning goals for each chapter, in-depth case studies, and step-by-step exercises demonstrating how to perform calculations and simulations in Excel, and online supplementary materials. Vucetich also gives substantive attention to the growing call for integrative learning by connecting population science to the ethical considerations that guide its application.

The Evolution of Population Biology Springer

Written by a world renowned biologist, this volume offers a comprehensive synthesis of current research in this rapidly expanding area of population biology. It covers both the essential theory and a wide range of empirical studies, including the author's groundbreaking work on the Glanville fritillary butterfly. It also includes practical applications to conservation biology. The book describes theoretical models for metapopulation dynamics in highly fragmented landscapes and emphasizes spatially realistic models. It presents the incidence function model and includes several detailed examples of its application. Accessible to advanced undergraduate and graduate students, Metapopulation Ecology will be a valuable resource for researchers in population biology, conservation biology, and landscape ecology.