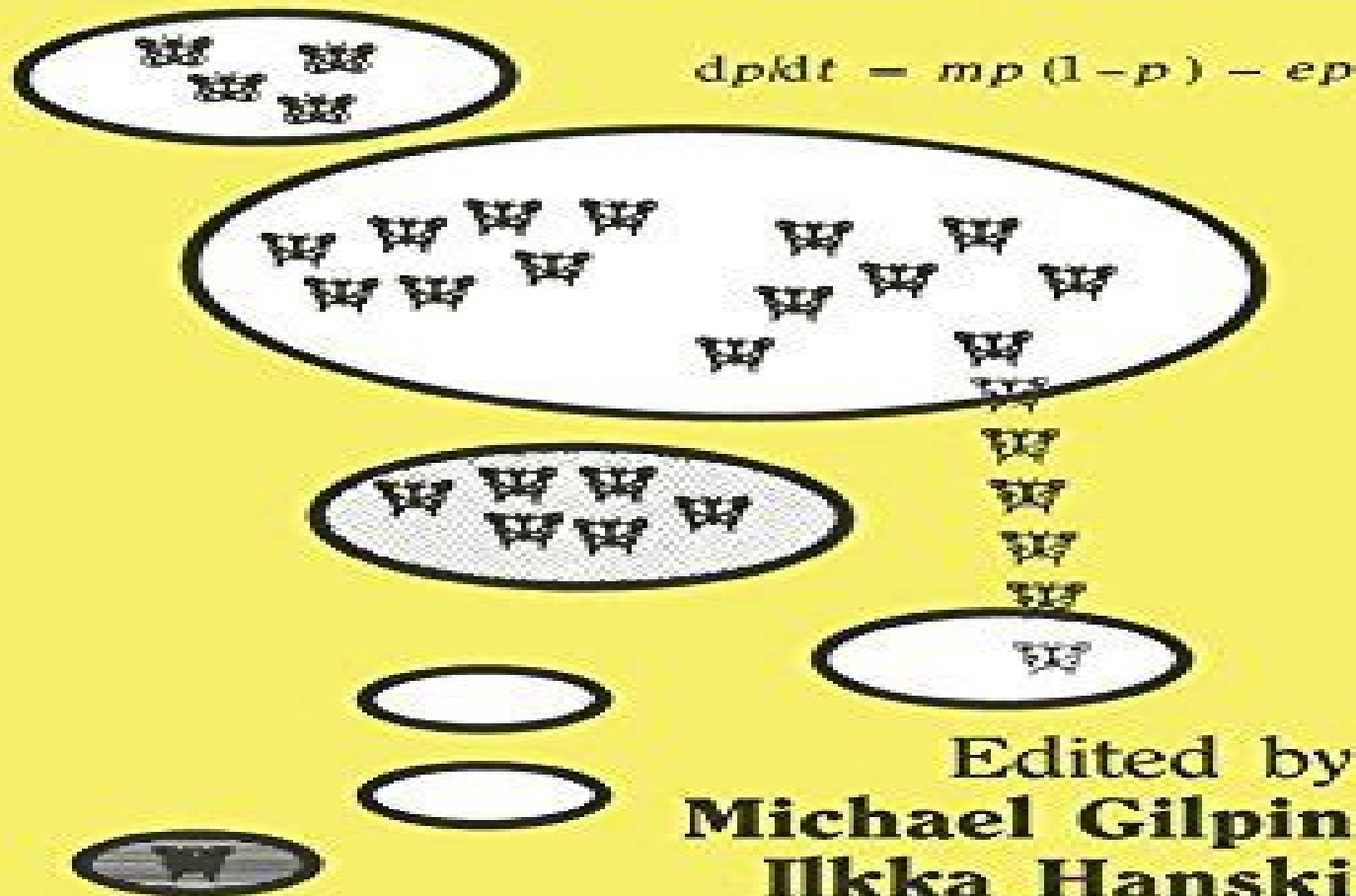


# METAPOPULATION DYNAMICS:

## Empirical and Theoretical Investigations

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# Metapopulation Dynamics Empirical And Theoretical Investigations

**O. Diekmann, J. A. P. Heesterbeek**



## **Metapopulation Dynamics Empirical And Theoretical Investigations:**

**Metapopulation Dynamics: Empirical and Theoretical Investigations** Michael Gilpin, 2012-12-02 Metapopulation Dynamics Empirical and Theoretical Investigations covers the 1989 proceedings of a metapopulation dynamics workshop held at Lammi Biological Station Helsinki Finland It is divided into 18 chapters that cover various approaches to spatially structured population and community dynamics After briefly discussing the history of metapopulation ideas and the major conceptual links the book covers types of studies that have been conducted on single species and multispecies metapopulations Then it examines the relationships between metapopulation dynamics the equilibrium theory of island biogeography and the dynamics of populations living in patchy environments It further tackles practical issues and the links between metapopulation dynamics and landscape ecology and between metapopulation dynamics and conservation biology Chapters 4 and 5 present structured models describing changes in the number of individuals within patches and an empirical evaluation of local extinction in metapopulation studies The subsequent chapters discuss several aspects of metapopulation including dispersal and connectivity colonization conspecific attraction extinction and isolation and forest fragmentation The latter chapters describe the concept of habitat fragmentation the diversity and competition in metapopulations the community collapse and the effects of metapopulation studies in predator prey systems

**Biological Invasions: Theory and Practice** Nanako Shigesada, Kohkichi Kawasaki, 1997-02-06 This book deals with the ecological effect a species can have when it moves into an environment that it has not previously occupied commonly referred to as an Invasion It is unique in presenting a clear and accessible introduction to a highly complex area the modelling of biological invasions The book presents the latest theories and models developed from studies into this crucial area It includes data and examples from biological case studies showing how the models can be applied to the study of invasions whether dealing with AIDS the European rabbit or prickly pear cactuses In nature all organisms migrate or disperse to some extent either by walking swimming flying or being transported by wind or water When a species succeeds in colonising an area that it has not previously inhabited this is referred to as an invasion Humans can precipitate biological invasions often spreading disease or pests by their travels around the world Using the large amount of data that has been collected from studies worldwide ranging from pest control to epidemiology it has been possible to construct mathematical models that can predict which species will become an invader what kind of habitat is susceptible to invasion by a particular species and how fast an invasion will spread if it occurs This book presents a clear and accessible introduction to this highly complex area Included are data and examples from biological case studies showing how these models can be applied to the study of invasions whether dealing with AIDS the European rabbit or prickly pear cactuses

**Population Dynamics** Naomi Cappuccino, Peter W. Price, 1995-09-01 An understanding of the dynamics of populations is critically important to ecologists evolutionary biologists wildlife managers foresters and many other biologists This edited treatise brings together the latest research on how

populations fluctuate in size the factors that drive these changes and the theories explaining how populations are regulated The book also includes specific chapters dealing with insects of economic importance *Metapopulation Ecology* Ilkka Hanski, 1999-03-18 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 Species Survival in Fragmented Landscapes J. Settele, Chris Margules, Peter Poschlod, Klaus Henle, 2012-12-06 The effects of isolation area size and habitat quality on the survival of animal and plant populations in the cultural landscape are central aspects of a research project started in Germany in 1993 Forschungsverbund Isolation FHichengroBe und BiotopqualiHit abbreviated to FIFB After a long period of preparation scientists from seven universities and one research institution started to work within the frame of this project Funding for four years was provided by the former German Federal Ministry of Research and Technology BMFT now the Ministry of Education and Research BMBF A strong focus of the project has been the improvement of the methodology for environmental impact assessments and the implementation of results into environmental planning As there is a certain risk that national projects develop some kind of mental inbreeding it was decided to discuss concepts methods and first results with scientists of international reputation at a rather early stage of the project For this purpose an international workshop was held in the small village of Lubast north of Leipzig state of Saxony in March 1995 130 scientists from 10 nations met to discuss and debate issues surrounding habitat fragmentation for three days Papers presented there formed the basis for this book As discussions included general reviews as well as particular case studies we decided to structure this book in a similar way Consequently a combination of broad and more general review like papers as well as original papers are presented *Biodiversity and Management of the Madrean Archipelago*, 1995

**Principles and Methods in Landscape Ecology** Almo Farina, 2022-05-25 This third thoroughly updated edition of a well received book presents the most complete collection of theories paradigms and methods utilized by the landscape sciences With the introduction of new ecosemiotic concepts and innovative managing procedures it offers a broad list of ecological ecosemiotic and cultural tools to investigate interpret and manage the environmental complexity according to a species specific individual based approach Readers will discover the importance of a landscape perspective to create strategic bridges between science and humanities favored by the holistic sight of sensorial visual acoustic olfactory tactile and thermal scapes Distributed in 10 chapters the content covers many aspects of the landscape sciences ranging from the

description of fundamental theories principles and models originated by ecological approaches like source sink models island biogeography hierarchical theory and scale The ecosemiotical approaches like the eco field model the ecoscape paradigm and the general theory of resources are widely described and discussed A cultural approach to landscape is utilized to focus on the heritage values of territories and their environmental identity This book written in an accessible and didactic style is particularly dedicated to undergraduate and graduate students but also scholars in ecology agroforestry urban planning nature design conservation and remediation Land practitioners farmers and policymakers can use this book as an authoritative guide to better understand the function and role of environmental systems according to a social economic integrated perspective **Ecology, Genetics and Evolution of Metapopulations** Ilkka A. Hanski, Oscar E.

Gaggiotti, 2004-02-26 Spatial dynamics landscape population **Designing Greenways** Paul Cawood Hellmund, Daniel Smith, 2013-03-05 How are greenways designed What situations lead to their genesis and what examples best illustrate their potential for enhancing communities and the environment Designing greenways is a key to protecting landscapes allowing wildlife to move freely and finding appropriate ways to bring people into nature This book brings together examples from ecology conservation biology aquatic ecology and recreation design to illustrate how greenways function and add value to ecosystems and human communities alike Encompassing everything from urban trail corridors to river floodplains to wilderness like linkages greenways preserve or improve the integrity of the landscape not only by stemming the loss of natural features but also by engendering new natural and social functions From 19th century parks and parkways to projects still on the drawing boards Designing Greenways is a fascinating introduction to the possibilities and pitfalls involved in these ambitious projects As towns and cities look to greenways as a new way of reconciling man and nature designers and planners will look to Designing Greenways as an invaluable compendium of best practices **Mathematical Epidemiology of**

**Infectious Diseases** O. Diekmann, J. A. P. Heesterbeek, 2000-04-07 Mathematical Epidemiology of Infectious Diseases Model Building Analysis and Interpretation O Diekmann University of Utrecht The Netherlands J A P Heesterbeek Centre for Biometry Wageningen The Netherlands The mathematical modelling of epidemics in populations is a vast and important area of study It is about translating biological assumptions into mathematics about mathematical analysis aided by interpretation and about obtaining insight into epidemic phenomena when translating mathematical results back into population biology Model assumptions are formulated in terms of usually stochastic behaviour of individuals and then the resulting phenomena at the population level are unravelled Conceptual clarity is attained assumptions are stated clearly hidden working hypotheses are attained and mechanistic links between different observables are exposed Features Model construction analysis and interpretation receive detailed attention Uniquely covers both deterministic and stochastic viewpoints Examples of applications given throughout Extensive coverage of the latest research into the mathematical modelling of epidemics of infectious diseases Provides a solid foundation of modelling skills The reader will learn to translate model analyse and

interpret with the help of the numerous exercises In literally working through this text the reader acquires modelling skills that are also valuable outside of epidemiology certainly within population dynamics but even beyond that In addition the reader receives training in mathematical argumentation The text is aimed at applied mathematicians with an interest in population biology and epidemiology at theoretical biologists and epidemiologists Previous exposure to epidemic concepts is not required as all background information is given The book is primarily aimed at self study and ideally suited for small discussion groups or for use as a course text

**Focus on Biodiversity Research** Jan Schwartz, 2007 Biological diversity or biodiversity refers to the variety of all life on earth and the complex relationships among living things and between living things and their environment Biodiversity includes genetic variety species diversity and variability in communities ecosystems and landscapes Biodiversity sustains the environments in which we live and on which our lives and those of every other living creature on Earth depend Thanks to biodiversity we are able to obtain such necessary goods as food clothing medicine and fuel Equally important are the ecosystem services that biodiversity provides such as clean air and drinkable water Conservation scientists have identified a number of universal threats to biodiversity habitat loss and degradation invasive species pollution overpopulation overexploitation and consumption and global climate change This book examines critical issues in this field from researchers around the globe

*Farming Action: Catchment Reaction* J Williams, RA Hook, HL Gascoigne, 1998-01-01 Dryland farming is a major export earner for many temperate zone countries yet it continues to degrade a country's natural resources Effects are not restricted to the land changes in water quality can reduce the potential uses of water and bring about catastrophic changes in both freshwater and coastal ecosystems Farming Action Catchment Reaction provides a comprehensive technical overview of the relationships between dryland farming systems and catchment land and water quality in Australia and integrates it in a whole system framework It deals with the issues in terms of people pointers processes and prediction as it discusses social aspects of developing and implementing research to improve dryland farming systems in catchment management programs indicators of catchment health and the processes which determine the impact of the farming action on the catchment response It concludes by considering the adequacy of our ability to use this process knowledge in models to predict the effect of dryland farming on catchment condition

Fishery Bulletin, 2009

*Evolutionary Paleobiology* James W. Valentine, 1996-12-15 Representing the state of the art in evolutionary paleobiology this book provides a much needed overview of this rapidly changing field An influx of ideas and techniques both from other areas of biology and from within paleobiology itself have resulted in numerous recent advances including increased recognition of the relationships between ecological and evolutionary theory renewed vigor in the study of ecological communities over geologic timescales increased understanding of biogeographical patterns and new mathematical approaches to studying the form and structure of plants and animals Contributors to this volume a veritable who's who of eminent researchers present the results of original research and new theoretical developments and provide directions for

future studies Individually wide ranging these papers all share a debt to the work of James W Valentine one of the founders of modern evolutionary paleobiology This volume s unified approach to the study of life on earth will be a major contribution to paleobiology evolution and ecology *Handbook of Environmental Economics* Karl-Goran Maler,Jeffrey R. Vincent,2003-05-20 The Handbook of Environmental Economics focuses on the economics of environmental externalities and environmental public goods Volume I examines environmental degradation and policy responses from a microeconomic institutional standpoint Its perspective is dynamic including a consideration of the dynamics of natural systems and global with attention paid to issues in both rich and poor nations In addition to chapters on well established topics such as the theory and practice of pollution regulation it includes chapters on new areas of environmental economics research related to common property management regimes population and poverty mechanism design political economy of regulation experimental evaluations of policy instruments and technological change Nonequilibrium Ecology Klaus Rohde,2006-01-19 Ecology has long been shaped by ideas that stress the sharing of resources and the competition for those resources and by the assumption that populations and communities typically exist under equilibrium conditions in habitats saturated with both individuals and species However much evidence contradicts these assumptions and it is likely that nonequilibrium is much more widespread than might be expected This book is unique in focusing on nonequilibrium aspects of ecology providing evidence for nonequilibrium and equilibrium in populations and metapopulations in extant communities and in ecological systems over evolutionary time including nonequilibrium due to recent and present mass extinctions The assumption that competition is of overriding importance is central to equilibrium ecology and much space is devoted to its discussion As communities of some taxa appear to be shaped more by competition than others an attempt is made to find an explanation for these differences **Insect Movement** Ian Woiwood,D. R. Reynolds,C. D. Thomas,2001 Knowledge of insect movement particularly of flight is crucial to our understanding of the great ecological and evolutionary success of insects The last 20 years have seen many advances in this subject area New fields have arisen such as metapopulation theory and dramatic developments have taken place in methods of studying movement as a result of new techniques in molecular biology and radar monitoring There have also been advances in our knowledge of flight related physiology and behaviour This book which is based on the main papers presented at the Royal Entomological Society s 20th Symposium held in September 1999 brings us up to date with these developments It contains chapters on flight mechanismsforaging movementsmigrationthe evolution of movement strategiesthe interactions between dispersal rates population structure and gene flow the effects of climate change on geographical distributionIt is essential reading for entomologists and of interest to those researching animal behaviour physiology ecology and genetics **Ecotoxicology** Michael C. Newman,William H. Clements,2007-12-13 A unique presentation that unifies the field this book brings together concepts and information about contaminant effects at all levels of the biological hierarchy Beginning at the biomolecular level this book builds progressively

toward a discussion of effects to the global biosphere Emphasizing ecological components and fundamental paradigms the authors strike a balance between the presentation of details relevant at each level and the integration of phenomena and processes among levels A milestone in the field the book is suitable for graduate courses as well as a reference for professionals in the field

*Conservation Biology* Fred Van Dyke, Rachel L. Lamb, 2020-07-07 This book provides a thorough up to date examination of conservation biology and the many supporting disciplines that comprise conservation science In this the Third Edition of the highly successful *Conservation Biology Foundations Concepts Applications* the authors address their interdisciplinary topic as it must now be practiced and perceived in the modern world Beginning with a concise review of the history of conservation the authors go on to explore the interplay of conservation with genetics demography habitat and landscape aquatic environments and ecosystem management and the relationship of all these disciplines to ethics economics law and policy An entirely new chapter The Anthropocene Conservation in a Human Dominated Nature breaks new ground in its exploration of how conservation can be practiced in anthropogenic biomes novel ecosystems and urban habitats The Third Edition includes the popular Points of Engagement discussion questions used in earlier editions and adds a new feature Information Boxes which briefly recap specific case histories described in the text A concluding chapter offers insight into how to become a conservation professional in both traditional and non traditional roles The authors Fred Van Dyke and Rachel Lamb draw on their expertise as field biologists wildlife managers consultants to government and industry and scholars of environmental law policy and advocacy as well as their many years of effective teaching experience Informed by practical knowledge and acquired skills the authors have created a work of exceptional clarity and readability which encompasses both systemic foundations as well as contemporary developments in the field *Conservation Biology Foundations Concepts Applications* will be of invaluable benefit to undergraduate and graduate students as well as to working conservation scientists and managers This is an amazing resource for students faculty and practitioners both new and experienced to the field Diane Debinski PhD Unexcelled wisdom for living at home on Wonderland Earth the planet with promise destined for abundant life Holmes Rolston PhD Van Dyke and Lamb have maintained the original text's emphasis on connecting classical ecological and environmental work with updated modern applications and lucid examples But more importantly the third edition contains much new material on the human side of conservation including expanded treatments of policy economics and climate change Tim Van Deelen PhD Fred Van Dyke and Rachel Lamb break new ground in both the breadth and depth of their review and analysis of this crucially important and rapidly changing field Any student or other reader wishing to have a comprehensive overview and understanding of the complexities of conservation biology need look no further this book is your starting point Simon N Stuart PhD Anyone who teaches talks or writes and works on Conservation Biology needs this latest edition of *Conservation Biology Foundations Concepts Applications* 3rd edition by Fred Van Dyke and Rachel L Lamb This will be useful to both beginners and experts as well The authors included almost all



important issues in relation to conservation biology This is really an outstanding book Bidhan Chandra Das Professor Ecology Branch Department of Zoology University of Rajshahi Bangladesh      **Perspectives on Biodiversity** National Research Council, Division on Earth and Life Studies, Commission on Life Sciences, Committee on Noneconomic and Economic Value of Biodiversity, 1999-10-01 Resource management decisions especially in the area of protecting and maintaining biodiversity are usually incremental limited in time by the ability to forecast conditions and human needs and the result of tradeoffs between conservation and other management goals The individual decisions may not have a major effect but can have a cumulative major effect Perspectives on Biodiversity reviews current understanding of the value of biodiversity and the methods that are useful in assessing that value in particular circumstances It recommends and details a list of components including diversity of species genetic variability within and among species distribution of species across the ecosystem the aesthetic satisfaction derived from diversity and the duty to preserve and protect biodiversity The book also recommends that more information about the role of biodiversity in sustaining natural resources be gathered and summarized in ways useful to managers Acknowledging that decisions about biodiversity are necessarily qualitative and change over time because of the nonmarket nature of so many of the values the committee recommends periodic reviews of management decisions

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