Population

A population is consists of individuals of the same species living together and can reproduce with each other for the continuation of species.

Biology Of Populations

Otto Thomas Solbrig,Dorothy J. Solbrig

Biology Of Populations:

Population Biology Alan Hastings,1996-12-13 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 The Biology of Population Growth Raymond Pearl,1930 **Modelling Biological Populations in Space and Time** Eric Renshaw,1993-08-26 This volume develops a unifying approach to population studies emphasising the interplay between modelling and experimentation Throughout mathematicians and biologists are provided with a framework within which population dynamics can be fully explored and understood Aspects of population dynamics covered include birth death and logistic processes competition and predator prey relationships chaos reaction time delays fluctuating environments spatial systems velocities of spread epidemics and spatial branching structures Both deterministic and stochastic models are considered Whilst the more theoretically orientated sections will appeal to mathematical biologists the material is presented so that readers with little mathematical expertise can bypass these without losing the main flow of the text The Biology of Populations Robert H. MacArthur,Joseph H. Connell,1966 **Population Biology and Evolution** K. Wöhrmann,V. Löschcke,2012-12-06 This volume contains the papers presented at a symposium on popula tion biology sponsored by the Deutsche Forschungsgemeinschaft It was held at the guest house of the University of Ttibingen at Oberjoch on May 15 19 1983 Prior to this conference a small group of European biologists had met in Berlin June 1981 and Pavia September 1982 to discuss re search problems on the borderline between population genetics and evolutionary ecology From the contributions and discussions at these meetings it became evident that the unification of approaches to evolutionary problems in population genetics and evolutionary ecology has not yet been suc cessful and requires further efforts It was the consensus that a larger symposium with international participation would be helpful to con front and discuss the different approaches to population biology in order to assess where we are now and where we should be going As a result an organizational committee was formed F Christiansen S Jayakar V Loeschcke W Scharloo and K W6hrmann to iden tify topics that seemed at least to them to be fruitful in tackling problems in population biology Consequently a number of colleagues were asked to participate in the meeting We have divided this book into chapters corresponding to the eight topics chosen The volume begins with the relation between genotype and phenotype and is followed by a chapter on quantitative genetics and selection in natural populations *Competition Models in Population*

Biology Paul Waltman,1983-01-01 This book uses fundamental ideas in dynamical systems to answer questions of a biologic nature in particular questions about the behavior of populations given a relatively few hypotheses about the nature of their growth and interaction The principal subject treated is that of coexistence under certain parameter ranges while asymptotic methods are used to show competitive exclusion in other parameter ranges Finally some problems in genetics are posed and analyzed as problems in nonlinear ordinary differential equations Population Biology Philip W. Hedrick,1984

Introduction to Population Biology Dick Neal,2004 Introduction to Population Biology provides a quantitative and Darwinian perspective of population processes Packed full of worked examples step by step simulations and problem sets this book will allow the student to gain a good grasp of the fundamentals of this important area Wie the Biology of Populations MacArthur,1967-01-01 **Management and Analysis of Biological Populations** Bean-San Goh,1980 Management and Analysis of Biological Populations *Introduction to Population Biology* Dick Neal,2018-11-29 How do plant and animal populations change genetically to evolve and adapt to their local environments How do populations grow and interact with one another through competition and predation How does behaviour influence ecology and evolution This second edition of Dick Neal s unique textbook on population biology addresses these questions and offers a comprehensive analysis of evolutionary theory in the areas of ecology population genetics and behaviour Taking a quantitative and Darwinian perspective Neal uses mathematical models to develop the basic theory of population processes Key features in this edition include new chapters on inbreeding and species interactions and community structure a modified structure in Part II more recent empirical examples to illustrate the application of theoretical models to the world around us and end of chapter problems to help students with self assessment A series of spreadsheet simulations have also been conveniently located online for students to further improve their understanding of such models *Population Biology* Alan Hastings,2013-03-14 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 *Population Biology* Simon A. Levin,1984 Contains lecture notes that were presented at the AMS Short Course on Population Biology held August 6 7 1983 in Albany New York in conjunction with the summer meeting of the American Mathematical Society This title acquaints the reader with the mathematical ideas that pervade various levels of thinking in population biology **Biology of Populations** Brenda K. Sladen,Frederik Barry Bang,1969 This book provides a

collection of essays on population dynamics and other aspects of ecology population genetics ethology and the nature of interactions of populations in disease These essays illustrate how animal and plant biology supports public health

Population Biology K. Wöhrmann,S.K. Jain,2012-12-06 Fascinated by the diversity of living organisms humans have always been curious about its origin Darwin was the first to provide the scholary and persuasive thesis for gradual evolution and speciation under natural selection Although we now have much information on evolution we still don t understand it in detail Many questions still remain open due to the complexity and multiplicity of interacting factors Several approaches mainly arising from population ecology and genetics are presented in this book in order to help understand genetic variation and evolution **Biology of Populations** ,1969 **Population Biology of Infectious Diseases** R.M. Anderson,R.M. May,2012-12-06 for the design of control programs in extreme cases as dis cussed below by Fine et al this volume and elsewhere it can happen that immunization programs although they protect vaccinated individuals actually increase the overall incidence of a particular disease The possibility that many nonhuman animal populations may be regulated by parasitic infections is another topic where it may be argued that conventional disciplinary boundaries have retarded investigation While much ecological research has been devoted to exploring the extent to which competition or predator prey interactions may regulate natural populations or set their patterns of geographical distribution few substan tial studies have considered the possibility that infectious diseases may serve as regulatory agents 1 8 On the other hand the many careful epidemiological studies of the trans mission and maintenance of parasitic infections in human and other animal populations usually assume the host population density to be set by other considerations and not dynamically engaged with the disease see for example 1 2 With all these considerations in mind the Dahlem Workshop from which this book derives aimed to weave strands together testing theoretical analysis against empirical facts and patterns and identifying outstanding problems in pursuit of a better un derstanding of the overall population biology of parasitic in fections For the purpose of the workshop the term parasite was de fined widely to include viruses bacteria protozoans fungi and helminths *Population Biology* H.I. Freedman,C. Strobeck,2013-03-13 This volume contains the Proceedings of the International Conference in Population Biology held at The University of Alberta Edmonton Canada from June 22 to June 30 1982 The Conference was sponsored by The University of Alberta and The Canadian Applied Mathematics Society and overlapped with the summer meeting of CAMS The main objectives of this Conference were to bring mathematicians and biologists together so that they may interact for their mutual benefit to bring those researchers interested in modelling in ecology and those interested in modelling in genetics together to bring in keynote speakers in the delineated areas to have sessions of contributed papers and to present the opportunity for researchers to conduct workshops With the exception of the last one the objec tives were carried out In order to lend some focus to the Conference the following themes were adopted models of species growth predator prey competition mutualism food webs dispersion age structure stability evolution of ecological parameters evolution of behaviour

life history strategies group and social selection and evolution of genetic systems There were speakers invited and or contributed papers in each of these areas Talks were given on Tuesday June 22 to Friday June 25 and on Monday June 28 to Wednesday June 30 On each day there were several talks by the principal speakers as well as contributed sessions Altogether there were ninety one papers given of which twelve were by the principal speakers There were one hundred and twenty three registered participants from twelve different countries **Mathematical Methods of Population Biology** Frank Charles Hoppensteadt,1982-02-26 An introduction to mathematical methods used in the study of population phenomena including models of total population and population age structure models of random population events presented in terms of Markov chains and methods used to uncover qualitative behavior of more complicated difference equations Introduction to Population Biology & Evolution Otto Thomas Solbrig,Dorothy J. Solbrig,1979

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