

# Conservation Of Wildlife Populations Demography Genetics And Management

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*Robert F. Costantino Heide-G. Benkmann Frank Hoppensteadt*

in this book I 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

the advances made possible by the development of molecular techniques have in recent years revolutionized quantitative genetics and its relevance for population genetics population genetics and microevolutionary theory takes a modern approach to population genetics incorporating modern molecular biology species level evolutionary biology and a thorough acknowledgment of quantitative genetics as the theoretical basis for population genetics logically organized into three main sections on population structure and history genotype phenotype interactions and selection adaptation extensive use of real examples to illustrate concepts written in a clear and accessible manner and devoid of complex mathematical equations includes the author s introduction to background material as well as a conclusion for a handy overview of the field and its modern applications each chapter ends with a set of review questions and answers offers helpful general references and internet links

this book is a unique synthesis of the major concepts and methods in bacterial population genetics in infectious disease a field that is now about 35 yrs old emphasis is given to explaining population level processes that shape genetic variation in bacterial populations and statistical methods of analysis of bacterial genetic data a how to of bacterial population genetics which covers an extremely large range of organisms expanding area of science due to high throughput genome sequencing of bacterial pathogens covers both fundamental approaches to analyzing bacterial population structures with conceptual background in bacterial population biology detailed treatment of statistical methods

this book is devoted to the collection interpretation and analysis of population genetic data among the topics included here are studies on human evolutionary history molecular techniques for generating data statistical and computational techniques for the interpretation of such data and stochastic models for genealogy and population structure the chapters reflect the close interaction between experimental molecular biologists and theoreticians the book will be useful for specialists in the area as well as mathematicians statisticians computer scientists and biologists wanting a brief overview of current problems in the field

a comprehensive two volume reference work on meteorological phenomena around the globe which includes 300 entries alphabetically arranged covering every aspect of climate and weather

this textbook shows readers how models of the genetic processes involved in evolution are made including natural selection migration

mutation and genetic drift in finite populations and how the models are used to interpret classical and molecular genetic data the material is intended for advanced level undergraduate courses in genetics and evolutionary biology graduate students in evolutionary biology and human genetics and researchers in related fields who wish to learn evolutionary genetics the topics covered include genetic variation dna sequence variability and its measurement the different types of natural selection and their effects e g the maintenance of variation directional selection and adaptation the interactions between selection and mutation or migration the description and analysis of variation at multiple sites in the genome genetic drift and the effects of spatial structure

habitat fragmentation is one of the most ubiquitous and serious environmental threats confronting the long term survival of plant and animal species worldwide as species become restricted to remnant habitats effective management for long term conservation requires a quantitative understanding of the genetic and demographic effects of habitat fragmentation and the implications for population viability this book provides a detailed introduction to the genetic and demographic issues relevant to the conservation of fragmented populations such as demographic stochasticity genetic erosion inbreeding metapopulation biology and population viability analysis the volume presents case studies on animals and plants which illustrate a variety of approaches to examining long term population viability some of the approaches include the application of molecular genetic markers the investigation of reproductive biology and the combination of demographic monitoring and modeling

the study of populations is becoming increasingly focused on dynamics we believe there are two reasons for this trend the first is the impact of nonlinear dynamics with its exciting ideas and colorful language bifurcations domains of attraction chaos fractals strange attractors complexity which is so very much a part of biology now seems to be also a part of mathematics a second trend is the accessibility of the new concepts the barriers to communication between theorist and experimentalist seem less impenetrable the active participation of the experimentalist means that the theory will obtain substance our role is the application of the theory of dynamics to the analysis of biological populations we began our work early in 1979 by writing an ordinary differential equation for the rate of change in adult numbers which was based on an equilibrium model proposed a decade earlier during the next few months we filled our notebooks with straightforward deductions from the model and its associated biological implications slowly some of the biological observations were explained and papers followed on a variety of topics genetic and demographic stability stationary probability distributions for population size population growth as a birth death process natural selection and density dependent population growth genetic disequilibrium and the stationary stochastic dynamics of adult numbers

a basic model in population age structure is studied and then applied and extended to several population phenomena

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