

Conservation Of Wildlife Populations Demography

Genetics And Management

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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

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

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

loss of biodiversity is among the greatest problems facing the world today conservation and the genetics of populations gives a comprehensive overview of the essential background concepts and tools needed to understand how genetic information can be used to conserve species threatened with extinction and to manage species of ecological or commercial importance new molecular techniques statistical methods and computer programs genetic principles and methods are becoming increasingly useful in the conservation of biological diversity using a balance of data and theory coupled with basic and applied research examples this book examines genetic and phenotypic variation in natural populations the principles and mechanisms of evolutionary change the interpretation of genetic data from natural populations and how these can be applied to conservation the book includes examples from plants animals and microbes in wild and captive populations this second edition contains new chapters on climate change and exploited populations as well as new sections on genomics genetic monitoring emerging diseases metagenomics and more one third of the references in this edition were published after the first edition each of the 22 chapters and the statistical appendix have a guest box written by an expert in that particular topic including james crow louis bernatchez loren rieseberg rick shine and lisette waits this book is essential for advanced undergraduate and graduate students of conservation genetics natural resource management and conservation biology as well as professional conservation biologists working for wildlife and habitat management agencies additional resources for this book can be found at wiley.com/go/allendorf/populations

annotation this successor to macmillan s international encyclopedia of population provides expanded up to date coverage of demographic topics both in the core field and in neighboring disciplines designed to encompass the large scale changes in emphasis and research directions in population studies during the last 20 years coverage complements the curriculum focus on human migration patterns population decline the environmental impact of dense

population and problems of old age support

a detailed introduction to the genetic and demographic issues relevant to the conservation of fragmented populations

this first edition takes a contemporary interdisciplinary approach to conservation biology and features vivid illustrations an engaging writing style and succinct coverage of the key principles governing conservation conservation biology focuses on the preservation of worldwide biodiversity through the conservation of habitats and restoration of ecosystems this text is designed for undergraduates at the junior and senior level especially those with strong backgrounds in biology it assumes a basic knowledge of cellular organismal and ecosystem functions and characteristics complemented by a basic understanding of reproductive biology including the characteristics of dna and its replication and mutation it is designed for a one semester course

in this revised and updated edition of the comprehensive population genetics book treatment extends basic genetic principles to the dynamics of genes and genotypes in groups of interbred individuals presents three points of view evolutionary quantitative and medical anthropological considers random mating non random mating and evolutionary forces that can change gene and genotype frequencies over time the impact of dna sequencing is addressed and illustrative examples from the experimental literature are included

this edition provides a balanced presentation of theory and observation it introduces the principles of genetics and statistics that are relevant to population studies and examines the forces affecting genetic variation from the molecular to the organismic level

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