

Introduction To Population Genetics Halliburton

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Halliburton also gives a very decent treatment of Coalescent Theory and even goes on to describe extensions of it in the case of selection, population subdivision and recombination. This is a very recent important book, and a most deserving competitor to Hartl and Clark's "Principles of Population Genetics". It has my highest recommendations.

Amazon.com: Introduction to Population Genetics ...

This text provides an introduction and essential background in population genetics for students from various fields in biology. By incorporating examples from many biological disciplines, it makes the theory of population genetics relevant to all students. It employs examples of human genetics, medical evolution, human evolution, and endangered species.

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Introduction to Population Genetics. by. Richard Halliburton. 4.14 · Rating details · 7 ratings · 1 review. Making the theory of population genetics relevant to readers, this book explains the related mathematics with a logical organization. It presents the quantitative aspects of population genetics, and employs examples of human genetics, medical evolution, human evolution, and endangered species.

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Introduction to Population Genetics by Richard Halliburton ...

Originally published in 1970, this classic in the field of population genetics opens with elementary concepts and deals primarily with natural populations and less fully with the rather similar problems that arise in breeding livestock and cultivated plants. Introduction to Population Genetics 2004

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INTRODUCTION TO POPULATION GENETICS. In this and the next few lectures we will be dealing with population genetics which generally views evolution as changes in the genetic makeup of populations. This is a somewhat reductionist approach: if we could understand the combined action of the forces that change gene frequencies in populations, and then let this run over many generations we might understand long term trends in evolution.

INTRODUCTION TO POPULATION GENETICS - Brown

Halliburton also gives a very decent treatment of Coalescent Theory and even goes on to describe extensions of it in the case of selection, population subdivision and recombination. This is a very recent important book, and a most deserving competitor to Hartl and Clark's "Principles of Population Genetics". It has my highest recommendations.

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Introduction to Population Genetics by Richard Halliburton, 9780130163806, available at Book Depository with free delivery worldwide.

Introduction to Population Genetics : Richard Halliburton ...

Population genetics is increasingly relevant to real-world problems such as mapping of genes associated with human diseases, conservation of endangered species, and antibiotic and drug resistance. This book is an attempt to explain the principles of population genetics to biology students, most of whom will not be come population geneticists.

Introduction to Population Genetics: Halliburton, Richard ...

Halliburton, Introduction to Population Genetics | Pearson Chapter 1 is an overview of population genetics, and a gentle introduction to mathematical modeling. Chapter 2 introduces the ideas of genotype frequency, allele frequency, and observed heterozygosity. Introduction to Population Genetics: Richard Halliburton ...

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Misc Richard Halliburton is Emeritus Professor of Biology at Western Connecticut State University where he taught and conducted research in genetics, evolutionary biology, and related subjects. He is author of Introduction to Population Genetics, a leading textbook in the field.

Bio - Richard Halliburton Photo

Introduction to Population Genetics In population genetics we study the evolution of populations, i.e., how the frequency of alleles changes over time AND the reasons for these changes This means that we are very interested in the evolution of POLYMORPHISMS Introduction to Population Genetics: Theory and ... An Introduction to Population Genetics is

Making the theory of population genetics relevant to readers, this book explains the related mathematics with a logical organization. It presents the quantitative aspects of population genetics, and employs examples of human genetics, medical evolution, human evolution, and endangered species. For an introduction to, and understanding of, population genetics.

Conservation and the Genetics of Populations gives acomprehensive overview of the essential background, concepts, andtools needed to understand how genetic information can be used todevelop conservation plans for species threatened withextinction. Provides a thorough understanding of the genetic basis ofbiological problems in conservation. Uses a balance of data and theory, and basic and appliedresearch, with examples taken from both the animal and plantkingdoms. An associated website contains example data sets and softwareprograms to illustrate population genetic processes and methods ofdata analysis. Discussion questions and problems are included at the end ofeach chapter to aid understanding. Features Guest Boxes written by leading people in the fieldincluding James F. Crow, Nancy FitzSimmons, Robert C. Lacy, MichaelW. Nachman, Michael E. Soule, Andrea Taylor, Loren H. Rieseberg,R.C. Vrijenhoek, Lisette Waits, Robin S. Waples and AndrewYoung. Supplementary information designed to support Conservationand the Genetics of Populations including: Downloadable sample chapter Answers to questions and problems Data sets illustrating problems from the book Data analysis software programs Website links An Instructor manual CD-ROM for this title is available. Pleasecontact our Higher Education team at ahref="mailto:HigherEducation@wiley.com"HigherEducation@wiley.com/for more information.

The Social Science Encyclopedia, first published in 1985 to acclaim from social scientists, librarians and students, was thoroughly revised in 1996, when reviewers began to describe it as a classic. This third edition has been radically recast. Over half the entries are new or have been entirely rewritten, and most of the balance have been substantially revised. Written by an international team of contributors, the Encyclopedia offers a global perspective on key issues within the social sciences. Some 500 entries cover a variety of enduring and newly vital areas of study and research methods. Experts review theoretical debates from neo-evolutionism and rational choice theory to poststructuralism, and address the great questions that cut across the social sciences. What is the influence of genes on behaviour? What is the nature of consciousness and cognition? What are the causes of poverty and wealth? What are the roots of conflict, wars, revolutions and genocidal violence? This authoritative reference work is aimed at anyone with a serious interest in contemporary academic thinking about the individual in society.

Loss of biodiversity is among the greatest problems facing theworld today. Conservation and the Genetics of Populationsgives a comprehensive overview of the essential background,concepts, and tools needed to understand how genetic informationcan be used to conserve species threatened with extinction, and tomanage species of ecological or commercial importance. Newmolecular techniques, statistical methods, and computer programs,genetic principles, and methods are becoming increasingly useful inthe conservation of biological diversity. Using a balance of dataand theory, coupled with basic and applied research examples, thisbook examines genetic and phenotypic variation in naturalpopulations, the principles and mechanisms of evolutionary change,the interpretation of genetic data from natural populations, andhow these can be applied to conservation. The book includesexamples from plants, animals, and microbes in wild and captivepopulations. This second edition contains new chapters on Climate Change andExploited Populations as well as new sections on genomics, geniticonitoring, emerging diseases, metagenomics, and more. One-third ofthe references in this edition were published after the firstedition. Each of the 22 chapters and the statistical appendix have aGuest Box written by an expert in that particular topic (includingJames Crow, Louis Bernatchez, Loren Rieseberg, Rick Shine, andLisette Waits). This book is essential for advanced undergraduate and graduatestudents of conservation genetics, natural resource management, andconservation biology, as well as professional conservationbiologists working for wildlife and habitat managementservices. Additional resources for this book can be found at: ahref="http://www.wiley.com/go/allendorf/populations"www.wiley.com/go/allendorf/populations/a.

Professor Smith uses Nubia as a case study to explore the nature of ethnic identity. Recent research suggests that ethnic boundaries are permeable, and that ethnic identities are overlapping. This is particularly true when cultures come into direct contact, as with the Egyptian conquest of Nubia in the second millennium BC. By using the tools of anthropology, Smith examines the Ancient Egyptian construction of ethnic identities with its stark contrast between civilized Egyptians and barbaric foreigners - those who made up the 'Wretched Kush' of the title.

Molecular Ecology, 2nd Edition provides an accessible introduction to the many diverse aspects of this subject. The book takes a logical and progressive approach to uniting examples from a wide range of taxonomic groups. The straightforward writing style offers in depth analysis whilst making often challenging subjects such as population genetics and phylogenetics highly comprehensible to the reader. The first part of the book introduces the essential underpinnings of molecular ecology and gives a review of genetics and discussion of the molecular markers that are most frequently used in ecological research, and a chapter devoted to the newly emerging field of ecological genomics. The second half of the book covers specific applications of molecular ecology, covering phylogeography, behavioural ecology and conservation genetics. The new edition provides a thoroughly up-to-date introduction to the field, emphasising new types of analyses and including current examples and techniques whilst also retaining the information-rich, highly readable style which set the first edition apart. Incorporates both theoretical and applied perspectives Highly accessible, user-friendly approach and presentation Includes self-assessment activities with hypothetical cases based on actual species and realistic data sets Uses case studies to place the theory in context Provides coverage of population genetics, genomics, phylogeography, behavioural ecology and conservation genetics.

Evolution - both the fact that it occurred and the theory describing the mechanisms by which it occurred - is an intrinsic and central component in modern biology. Theodosius Dobzhansky captures this well in the much-quoted title of his 1973 paper 'Nothing in biology makes sense except in the light of evolution'. The correctness of this assertion is even more obvious today: philosophers of biology and biologists agree that the fact of evolution is undeniable and that the theory of evolution explains that fact. Such a theory has far-reaching implications. In this volume, eleven distinguished scholars address the conceptual, metaphysical and epistemological richness of the theory and its ethical and religious impact, exploring topics including DNA barcoding, three grand challenges of human evolution, functionalism, historicity, design, evolution and development, and religion and secular humanism. The volume will be of great interest to those studying philosophy of biology and evolutionary biology.

This two-volume set - winner of a 2013 Highly Commended BMA Medical Book Award for Medicine - provides an in-depth look at one of the most promising avenues for advances in the diagnosis, prevention and treatment of human disease. The inclusion of the latest information on diagnostic testing, population screening, predicting disease susceptibility, pharmacogenomics and more presents this book as an essential tool for both students and specialists across many biological and medical disciplines, including human genetics and genomics, oncology, neuroscience, cardiology, infectious disease, molecular medicine, and biomedical science, as well as health policy disciplines focusing on ethical, legal, regulatory and economic aspects of genomics and medicine. Volume One Includes: Principles, Methodology and Translational Approaches, takes readers on the journey from principles of human genomics to technology, informatic and computational platforms for genomic medicine, as well as strategies for translating genomic discoveries into advances in personalized clinical care. Volume Two Includes: Genome Discoveries and Clinical Applications presents the latest developments in disease-based genomic and personalized medicine. With chapters dedicated to cardiovascular disease, oncology, inflammatory disease, metabolic disease, neuropsychiatric disease, and infectious disease, this work provides the most comprehensive guide to the principles and practice of genomic and personalized medicine. Highly Commended 2013 BMA Medical Book Award for Medicine Contributions from leaders in the field provide unparalleled insight into current technologies and applications in clinical medicine. Full colour throughout enhances the utility of this work as the only available comprehensive reference for genomic and personalized medicine. Discusses scientific foundations and practical applications of new discoveries, as well as ethical, legal/regulatory, and social issues related to the practice of genomic medicine.

The aim of this book is to present some advances in different aspects of oil and gas technology. Two chapters are dedicated to the scientific research in the domain of reservoir engineering and characterization. Four chapters are dedicated to the field of well drilling and performance and another chapter is related to oil and transport.

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