

INTERDISCIPLINARY APPLIED MATHEMATICS

MATHEMATICAL BIOLOGY

Mathematical Population Genetics

I. Theoretical Introduction

Warren J. Ewens

Second Edition



Springer

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Warren J. Ewens



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Mathematical Population Genetics 1 Warren J. Ewens, 2012-10-01 Population genetics occupies a central role in a number of important biological and social undertakings. It is fundamental to our understanding of evolutionary processes of plant and animal breeding programs and of various diseases of particular importance to mankind. This is the first of a planned two volume work discussing the mathematical aspects of population genetics with an emphasis on the evolutionary theory. This first volume draws heavily from the author's classic 1979 edition which appeared originally in Springer's Biomathematics series. It has been revised and expanded to include recent topics which follow naturally from the treatment in the earlier edition, e.g. the theory of molecular population genetics. This book will appeal to graduate students and researchers in mathematical biology and other mathematically trained scientists looking to enter the field of population genetics.

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processes are connected to each other from a modeling perspective as well as their simulation capabilities in C and Matlab™

The Quasispecies Equation and Classical Population Models Raphaël Cerf, Joseba Dalmau, 2022-07-30

This monograph studies a series of mathematical models of the evolution of a population under mutation and selection. Its starting point is the quasispecies equation, a general non-linear equation which describes the mutation-selection equilibrium in Manfred Eigen's famous quasispecies model. A detailed analysis of this equation is given under the assumptions of finite genotype space, sharp peak landscape, and class-dependent fitness landscapes. Different probabilistic representation formulae are derived for its solution involving classical combinatorial quantities like Stirling and Euler numbers. It is shown how quasispecies and error threshold phenomena emerge in finite population models and full mathematical proofs are provided in the case of the Wright-Fisher model. Along the way, exact formulas are obtained for the quasispecies distribution in the long chain regime on the sharp peak landscape and on class-dependent fitness landscapes. Finally, several other classical population models are analyzed with a focus on their dynamical behavior and their links to the quasispecies equation. This book will be of interest to mathematicians and theoretical ecologists/biologists working with finite population models.

Encyclopedia of Microbiology Thomas M. Schmidt, 2019-09-11

Encyclopedia of Microbiology Fourth Edition Five Volume Set gathers both basic and applied dimensions in this dynamic field that includes virtually all environments on Earth. This range attracts a growing number of cross-disciplinary studies which the encyclopedia makes available to readers from diverse educational backgrounds. The new edition builds on the solid foundation established in earlier versions, adding new material that reflects recent advances in the field. New focus areas include Animal and Plant Microbiomes and Global Impact of Microbes. The thematic organization of the work allows users to focus on specific areas, e.g. for didactical purposes, while also browsing for topics in different areas. Offers an up-to-date and authoritative resource that covers the entire field of microbiology from basic principles to applied technologies. Provides an organic overview that is useful to academic teachers and scientists from different backgrounds. Includes chapters that are enriched with figures and graphs and that can be easily consulted in isolation to find fundamental definitions and concepts.

Critical Population and Error Threshold on the Sharp Peak Landscape for a Moran Model Raphaël Cerf, 2014-12-20

The goal of this work is to propose a finite population counterpart to Eigen's model which incorporates stochastic effects. The author considers a Moran model describing the evolution of a population of size of chromosomes of length ℓ over an alphabet of cardinality ℓ . The mutation probability per locus is μ . He deals only with the sharp peak landscape: the replication rate is 1 for the master sequence and $1 - \mu$ for the other sequences. He studies the equilibrium distribution of the process in the regime where $\ell \mu \rightarrow 0$.

The British National Bibliography Arthur James Wells, 2004

Mathematical Reviews, 2004

Mathematical population genetics Warren John Ewens, 2004

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American Book Publishing Record, 2001

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Medical Books and Serials in Print R. R. Bowker LLC, R.R. Bowker Company, 1978 **Internet and Network Economics** Ning Chen, Edith Elkind, Elias Koutsoupas, 2012-02-02 This book constitutes the refereed proceedings of the 7th International Workshop on Internet and Network Economics WINE 2011 held in Singapore in December 2011 The 31 revised full papers and 5 revised short papers presented together with the abstracts of 3 papers about work in progress were carefully reviewed and selected from 100 submissions The papers are organized in topical sections on algorithmic game theory algorithmic mechanism design computational advertising computational social choice convergence and learning in games economics aspects of security and privacy information and attention economics network games and social networks
Bulletin of the Atomic Scientists ,1972-10 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin's iconic Doomsday Clock stimulates solutions for a safer world

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web saudi aramco project management monthly safety inspection color code color code system equipment to be inspected
january may september green lifting tackle slings chain hoists come a longs etc gas cutting apparatus regulators and gauges
torches flash

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web safety requirements color coding and painting requirements for industrial facilities are common to both major
specification groups structures equipment and pipelines the following is a short description of the related saudi aramco
standards dealing with or required to understand the use and application of paints coatings and linings

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web nov 23 2021 saes saudi aramco engineering standards series for design construction and inspection of piping systems
are owned or operated by saudi aramco and are implemented strictly without

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web dec 26 2021 our primary palette consists of nine colors aramco green aramco blue dark green dark blue aramco gray
dark gray neutral gray light gray and white these colors are used externally and internally across channels and touch points

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web in addition the following safety color designations have been used in company facilities and shall continue to be
acceptable for use as safety colors for existing and new facilities safety red ral¹ 3000 bs² 538 537 fs³ 31350 safety green ral
6016 bs² 538 262 fs 14120 safety yellow ral 1023 bs² 538 363 fs 13591 23640 safety orange

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web apr 1 2012 ild electrical signal lines the wires are color coded to show which wires must be connected to terminal posts instrument cables that carry low voltage signals are shielded to prevent outside electrical energy from interfering with the signals the wires are color coded saudi aramco desktop standards 51 54 engineering

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web arabia to follow the bs en 1089 3 standard of color code for owned cylinders to get a fully harmonized color coding system mega member companies in the kingdom of saudi arabia will follow a separate color code the colour code outlined in this document applies specifically to gas cylinders for pure gases

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web saudi aramco desktop standards 7 saes b 067 this standard describes the mandatory safety color coding for equipment and piping in saudi aramco facilities to identify potential hazards and alleviate fire and safety concerns and specifies the following specific paint colors to identify piping and equipment in fire

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web 4 aramco standards color coding 2020 02 13 enters into force on 1 january 2013 the associated guidelines which assist states and industry in the implementation of marpol annex v have been reviewed and updated and two guidelines were adopted in march 2012 at mepc s sixty third session the 2012 edition of this publication contains the 2012

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web requirements 4 1 general 4 1 1 pipes vessels valves and related structural supports shall be painted a neutral background color such as aluminum gray or black which will not detract from the high visibility of the safety colors set out in this specification for coating selection see saes h 001