

INTERDISCIPLINARY APPLIED MATHEMATICS

MATHEMATICAL BIOLOGY

# Mathematical Population Genetics

I. Theoretical Introduction

Warren J. Ewens

Second Edition



Springer

# Mathematical Population Genetics 1 Theoretical Introduction Interdisciplinary Applied Mathematics

**R Sandford**



## **Mathematical Population Genetics 1 Theoretical Introduction Interdisciplinary Applied Mathematics:**

Mathematical Population Genetics 1 Warren J. Ewens, 2012-11-06 This is the first of a planned two volume work discussing the mathematical aspects of population genetics with an emphasis on evolutionary theory This volume draws heavily from the author's 1979 classic but it has been revised and expanded to include recent topics which follow naturally from the treatment in the earlier edition such as the theory of molecular population genetics

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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

*Monte-Carlo Methods and Stochastic Processes* Emmanuel Gobet, 2016-09-15 Developed from the author's course at the Ecole Polytechnique Monte Carlo Methods and Stochastic Processes From Linear to Non Linear focuses on the simulation of stochastic processes in continuous time and their link with partial differential equations PDEs It covers linear and nonlinear problems in biology finance geophysics mechanics chemistry and other application areas The text also thoroughly develops the problem of numerical integration and computation of expectation by the Monte Carlo method The book begins with a history of Monte Carlo methods and an overview of three typical Monte Carlo problems numerical integration and computation of expectation simulation of complex distributions and stochastic optimization The remainder of the text is organized in three parts of progressive difficulty The first part presents basic tools for stochastic simulation and analysis of algorithm convergence The second part describes Monte Carlo methods for the simulation of stochastic differential equations The final part discusses the simulation of non linear dynamics

**Stochastic Modeling** Nicolas Lanchier, 2017-01-27 Three coherent parts form the material covered in this text portions of which have not been widely covered in traditional textbooks In this coverage the reader is quickly introduced to several different topics enriched with 175 exercises which focus on real world problems Exercises range from the classics of probability theory to more exotic research oriented problems based on numerical simulations Intended for graduate students in mathematics and

applied sciences the text provides the tools and training needed to write and use programs for research purposes The first part of the text begins with a brief review of measure theory and revisits the main concepts of probability theory from random variables to the standard limit theorems The second part covers traditional material on stochastic processes including martingales discrete time Markov chains Poisson processes and continuous time Markov chains The theory developed is illustrated by a variety of examples surrounding applications such as the gambler's ruin chain branching processes symmetric random walks and queueing systems The third more research oriented part of the text discusses special stochastic processes of interest in physics biology and sociology Additional emphasis is placed on minimal models that have been used historically to develop new mathematical techniques in the field of stochastic processes the logistic growth process the Wright Fisher model Kingman's coalescent percolation models the contact process and the voter model Further treatment of the material explains how these special 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

### **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 over an alphabet of cardinality The mutation probability per locus is He deals only with the sharp peak landscape the replication rate is for the master sequence and for the other sequences He studies the equilibrium distribution of the process in the regime where

Mathematical population genetics Warren John Ewens, 2004

*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 **Rundbrief der**

**Gesellschaft für Angewandte Mathematik und Mechanik** Gesellschaft für Angewandte Mathematik und Mechanik,2002

An Introduction to Structured Population Dynamics J. M. Cushing,1998-01-01 Interest in the temporal fluctuations of biological populations can be traced to the dawn of civilization How can mathematics be used to gain an understanding of population dynamics This monograph introduces the theory of structured population dynamics and its applications focusing on the asymptotic dynamics of deterministic models This theory bridges the gap between the characteristics of individual organisms in a population and the dynamics of the total population as a whole In this monograph many applications that illustrate both the theory and a wide variety of biological issues are given along with an interdisciplinary case study that illustrates the connection of models with the data and the experimental documentation of model predictions The author also discusses the use of discrete and continuous models and presents a general modeling theory for structured population dynamics Cushing begins with an obvious point individuals in biological populations differ with regard to their physical and behavioral characteristics and therefore in the way they interact with their environment Studying this point effectively requires the use of structured models Specific examples cited throughout support the valuable use of structured models Included among these are important applications chosen to illustrate both the mathematical theories and biological problems that have received attention in recent literature *Newsletter* New Zealand Mathematical Society,2004

**The British National Bibliography** Arthur James Wells,2004 **Mathematical Reviews** ,2004 **Explorations of Mathematical**

**Models in Biology with Maple** Mazen Shahin,2014-10-07 Explore and analyze the solutions of mathematical models from diverse disciplines As biology increasingly depends on data algorithms and models it has become necessary to use a computing language such as the user friendly Maple™ to focus more on building and analyzing models as opposed to configuring tedious calculations Explorations of Mathematical Models in Biology with Maple provides an introduction to model creation using Maple followed by the translation analysis interpretation and observation of the models With an integrated and interdisciplinary approach that embeds mathematical modeling into biological applications the book illustrates numerous applications of mathematical techniques within biology ecology and environmental sciences Featuring a quantitative computational and mathematical approach the book includes Examples of real world applications such as

population dynamics genetics drug administration interacting species and the spread of contagious diseases to showcase the relevancy and wide applicability of abstract mathematical techniques Discussion of various mathematical concepts such as Markov chains matrix algebra eigenvalues eigenvectors first order linear difference equations and nonlinear first order difference equations Coverage of difference equations to model a wide range of real life discrete time situations in diverse areas as well as discussions on matrices to model linear problems Solutions to selected exercises and additional Maple codes Explorations of Mathematical Models in Biology with Maple is an ideal textbook for undergraduate courses in mathematical models in biology theoretical ecology bioeconomics forensic science applied mathematics and environmental science The book is also an excellent reference for biologists ecologists mathematicians biomathematicians and environmental and resource economists     *Bois et forêts des tropiques* ,2005     *Books in Print* ,1993-09 V 1 Authors A D v 2 Authors E K v 3 Authors L R v 4 S Z v 5 Titles A D v 6 Titles E K v 7 Titles L Q v 8 Titles R Z v 9 Out of print out of stock indefinitely v 10 Publishers     **American Book Publishing Record** ,2001     **Deutsche Nationalbibliografie** Die deutsche Nationalbibliothek,2004     *Who's Who in Science and Engineering 2008-2009* Who's Who Marquis,Marquis Who's Who,2007-12

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