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The Mathematical Theory of Selection, Recombination, and Mutation

R. Bürger

 **WILEY**

Mathematical Theory Of Selection Recombination And Mutation

Didier Musso



Mathematical Theory Of Selection Recombination And Mutation:

The Mathematical Theory of Selection, Recombination, and Mutation R. Bürger, 2000-11-02 It is close to being a masterpiece could well be the classic presentation of the area Warren J Ewens University of Pennsylvania USA Population genetics is concerned with the study of the genetic ecological and evolutionary factors that influence and change the genetic composition of populations The emphasis here is on models that have a direct bearing on evolutionary quantitative genetics Applications concerning the maintenance of genetic variation in quantitative traits and their dynamics under selection are treated in detail Provides a unified self contained and in depth study of the theory of multilocus systems Introduces the basic population genetic models Explores the dynamical and equilibrium properties of the distribution of quantitative traits under selection Summarizes important results from more demanding sections in a comprehensible way Employs a clear and logical presentation style Following an introduction to elementary population genetics and discussion of the general theory of selection at two or more loci the author considers a number of mutation selection models and derives the dynamical equations for polygenic traits under general selective regimes The final chapters are concerned with the maintenance of quantitative genetic variation the response to directional selection the evolutionary role of deleterious mutations and other topics Graduate students and researchers in population genetics evolutionary theory and biomathematics will benefit from the in depth coverage This text will make an excellent reference volume for the fields of quantitative genetics population and theoretical biology

[A Quest Towards a Mathematical Theory of Living Systems](#) Nicola Bellomo, Abdelghani Bellouquid, Livio Gibelli, Nisrine Outada, 2017-07-13 This monograph aims to lay the groundwork for the design of a unified mathematical approach to the modeling and analysis of large complex systems composed of interacting living things Drawing on twenty years of research in various scientific fields it explores how mathematical kinetic theory and evolutionary game theory can be used to understand the complex interplay between mathematical sciences and the dynamics of living systems The authors hope this will contribute to the development of new tools and strategies if not a new mathematical theory The first chapter discusses the main features of living systems and outlines a strategy for their modeling The following chapters then explore some of the methods needed to potentially achieve this in practice Chapter Two provides a brief introduction to the mathematical kinetic theory of classical particles with special emphasis on the Boltzmann equation the Enskog equation mean field models and Monte Carlo methods are also briefly covered Chapter Three uses concepts from evolutionary game theory to derive mathematical structures that are able to capture the complexity features of interactions within living systems The book then shifts to exploring the relevant applications of these methods that can potentially be used to derive specific usable models The modeling of social systems in various contexts is the subject of Chapter Five and an overview of modeling crowd dynamics is given in Chapter Six demonstrating how this approach can be used to model the dynamics of multicellular systems The final chapter considers some additional applications before presenting an overview of open

problems The authors then offer their own speculations on the conceptual paths that may lead to a mathematical theory of living systems hoping to motivate future research activity in the field A truly unique contribution to the existing literature A Quest Toward a Mathematical Theory of Living Systems is an important book that will no doubt have a significant influence on the future directions of the field It will be of interest to mathematical biologists systems biologists biophysicists and other researchers working on understanding the complexities of living systems

Probability in Complex Physical Systems Jean-Dominique Deuschel, Barbara Gentz, Wolfgang König, Max von Renesse, Michael Scheutzow, Uwe Schmock, 2012-04-23 Probabilistic approaches have played a prominent role in the study of complex physical systems for more than thirty years This volume collects twenty articles on various topics in this field including self interacting random walks and polymer models in random and non random environments branching processes Parisi formulas and metastability in spin glasses and hydrodynamic limits for gradient Gibbs models The majority of these articles contain original results at the forefront of contemporary research some of them include review aspects and summarize the state of the art on topical issues one focal point is the parabolic Anderson model which is considered with various novel aspects including moving catalysts acceleration and deceleration and front propagation for both time dependent and time independent potentials The authors are among the world's leading experts This Festschrift honours two eminent researchers Erwin Bolthausen and Jürgen Gärtner whose scientific work has profoundly influenced the field and all of the present contributions

The Mathematics of Darwin's Legacy Fabio A. C. Chalub, José Francisco Rodrigues, 2011-06-24 The book presents a general overview of mathematical models in the context of evolution It covers a wide range of topics such as population genetics population dynamics speciation adaptive dynamics game theory kin selection and stochastic processes Written by leading scientists working at the interface between evolutionary biology and mathematics the book is the outcome of a conference commemorating Charles Darwin's 200th birthday and the 150th anniversary of the first publication of his book On the origin of species Its chapters vary in format between general introductory and state of the art research texts in biomathematics in this way addressing both students and researchers in mathematics biology and related fields Mathematicians looking for new problems as well as biologists looking for rigorous description of population dynamics will find this book fundamental

Topics in Mathematical Biology Karl Peter Hadeler, 2017-12-20 This book analyzes the impact of quiescent phases on biological models Quiescence arises for example when moving individuals stop moving hunting predators take a rest infected individuals are isolated or cells enter the quiescent compartment of the cell cycle In the first chapter of Topics in Mathematical Biology general principles about coupled and quiescent systems are derived including results on shrinking periodic orbits and stabilization of oscillations via quiescence In subsequent chapters classical biological models are presented in detail and challenged by the introduction of quiescence These models include delay equations demographic models age structured models Lotka Volterra systems replicator systems genetic models game theory Nash equilibria

evolutionary stable strategies ecological models epidemiological models random walks and reaction diffusion models In each case we find new and interesting results such as stability of fixed points and or periodic orbits excitability of steady states epidemic outbreaks survival of the fittest and speeds of invading fronts The textbook is intended for graduate students and researchers in mathematical biology who have a solid background in linear algebra differential equations and dynamical systems Readers can find gems of unexpected beauty within these pages and those who knew K P as he was often called well will likely feel his presence and hear him speaking to them as they read Introduction to Reaction-Diffusion Equations King-Yeung Lam, Yuan Lou, 2022-12-01 This book introduces some basic mathematical tools in reaction diffusion models with applications to spatial ecology and evolutionary biology It is divided into four parts The first part is an introduction to the maximum principle the theory of principal eigenvalues for elliptic and periodic parabolic equations and systems and the theory of principal Floquet bundles The second part concerns the applications in spatial ecology We discuss the dynamics of a single species and two competing species as well as some recent progress on N competing species in bounded domains Some related results on stream populations and phytoplankton populations are also included We also discuss the spreading properties of a single species in an unbounded spatial domain as modeled by the Fisher KPP equation The third part concerns the applications in evolutionary biology We describe the basic notions of adaptive dynamics such as evolutionarily stable strategies and evolutionary branching points in the context of a competition model of stream populations We also discuss a class of selection mutation models describing a population structured along a continuous phenotypical trait The fourth part consists of several appendices which present a self contained treatment of some basic abstract theories in functional analysis and dynamical systems Topics include the Krein Rutman theorem for linear and nonlinear operators as well as some elements of monotone dynamical systems and abstract competition systems Most of the book is self contained and it is aimed at graduate students and researchers who are interested in the theory and applications of reaction diffusion equations

Human Evolutionary Demography Oskar Burger, Ronald Lee, Rebecca Sear, 2024-06-14 Human evolutionary demography is an emerging field blending natural science with social science This edited volume provides a much needed interdisciplinary introduction to the field and highlights cutting edge research for interested readers and researchers in demography the evolutionary behavioural sciences biology and related disciplines By bridging the boundaries between social and biological sciences the volume stresses the importance of a unified understanding of both in order to grasp past and current demographic patterns Demographic traits and traits related to demographic outcomes including fertility and mortality rates marriage parental care menopause and cooperative behavior are subject to evolutionary processes Bringing an understanding of evolution into demography therefore incorporates valuable insights into this field just as knowledge of demography is key to understanding evolutionary processes By asking questions about old patterns from a new perspective the volume composed of contributions from established and early career academics demonstrates that a combination of

social science research and evolutionary theory offers holistic understandings and approaches that benefit both fields Human Evolutionary Demography introduces an emerging field in an accessible style It is suitable for graduate courses in demography as well as upper level undergraduates Its range of research is sure to be of interest to academics working on demographic topics anthropologists sociologists demographers natural scientists working on evolutionary processes and disciplines which cross cut natural and social science such as evolutionary psychology human behavioral ecology cultural evolution and evolutionary medicine As an accessible introduction it should interest readers whether or not they are currently familiar with human evolutionary demography

The Mathematical Theory of Quantitative Genetics M. G. Bulmer,1985 This book emphasizes discussion of the underlying principles of the theory of quantitative genetics which provides the bridge between the observable statistical properties of a character and the genic factors which together with environmental factors determine the expression of the character An essential reference for anyone concerned with quantitative genetics Provides the only review available of the parts of quantitative genetics relevant to evolutionary theory Science

Population Genetics, Molecular Evolution, and the Neutral Theory Motoo Kimura,1994 One of this century s leading evolutionary biologists Motoo Kimura revolutionized the field with his random drift theory of molecular evolution the neutral theory and his groundbreaking theoretical work in population genetics This volume collects 57 of Kimura s most important papers and covers forty years of his diverse and original contributions to our understanding of how genetic variation affects evolutionary change Kimura s neutral theory first presented in 1968 challenged the notion that natural selection was the sole directive force in evolution Arguing that mutations and random drift account for variations at the level of DNA and amino acids Kimura advanced a theory of evolutionary change that was strongly challenged at first and that eventually earned the respect and interest of evolutionary biologists throughout the world This volume includes the seminal papers on the neutral theory as well as many others that cover such topics as population structure variable selection intensity the genetics of quantitative characters inbreeding systems and reversibility of changes by random drift Background essays by Naoyuki Takahata examine Kimura s work in relation to its effects and recent developments in each area

Mathematical Modelling of Population Dynamics Ryszard Rudnicki,2004

The American Naturalist ,1930

Journal of Virology ,2005

Stochastic Models in Biological Sciences Reinhard Bürger,Christian Maes,Jacek Miękisz,2008 Summary This volume contains papers presented at the workshop Stochastic Models in Biological Sciences held at the Stefan Banach International Mathematical Center in Warsaw 29 May 2 June 2006 Preface p 5

Discrete and Continuous Dynamical Systems ,2002

Proceedings of the National Academy of Sciences of the United States of America ,2006

Elements of Evolutionary Genetics Brian Charlesworth,Deborah Charlesworth,2010-02-03 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

Annual Review of Ecology, Evolution, and Systematics ,2006 **Compositional Evolution** Richard A. Watson,2006 In *Compositional Evolution* Richard Watson uses the tools of computer science and computational biology to show that certain mechanisms of genetic variation such as sex gene transfer and symbiosis allowing the combination of preadapted genetic material enable an evolutionary process compositional evolution that is algorithmically distinct from the Darwinian gradualist framework Jacket Annales de L'I.H.P. ,2004

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Table of Contents Mathematical Theory Of Selection Recombination And Mutation

1. Understanding the eBook Mathematical Theory Of Selection Recombination And Mutation
 - The Rise of Digital Reading Mathematical Theory Of Selection Recombination And Mutation
 - Advantages of eBooks Over Traditional Books
2. Identifying Mathematical Theory Of Selection Recombination And Mutation
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Mathematical Theory Of Selection Recombination And Mutation

- User-Friendly Interface
- 4. Exploring eBook Recommendations from Mathematical Theory Of Selection Recombination And Mutation
 - Personalized Recommendations
 - Mathematical Theory Of Selection Recombination And Mutation User Reviews and Ratings
 - Mathematical Theory Of Selection Recombination And Mutation and Bestseller Lists
- 5. Accessing Mathematical Theory Of Selection Recombination And Mutation Free and Paid eBooks
 - Mathematical Theory Of Selection Recombination And Mutation Public Domain eBooks
 - Mathematical Theory Of Selection Recombination And Mutation eBook Subscription Services
 - Mathematical Theory Of Selection Recombination And Mutation Budget-Friendly Options
- 6. Navigating Mathematical Theory Of Selection Recombination And Mutation eBook Formats
 - ePub, PDF, MOBI, and More
 - Mathematical Theory Of Selection Recombination And Mutation Compatibility with Devices
 - Mathematical Theory Of Selection Recombination And Mutation Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mathematical Theory Of Selection Recombination And Mutation
 - Highlighting and Note-Taking Mathematical Theory Of Selection Recombination And Mutation
 - Interactive Elements Mathematical Theory Of Selection Recombination And Mutation
- 8. Staying Engaged with Mathematical Theory Of Selection Recombination And Mutation
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mathematical Theory Of Selection Recombination And Mutation
- 9. Balancing eBooks and Physical Books Mathematical Theory Of Selection Recombination And Mutation
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mathematical Theory Of Selection Recombination And Mutation
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Mathematical Theory Of Selection Recombination And Mutation
 - Setting Reading Goals Mathematical Theory Of Selection Recombination And Mutation

- Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mathematical Theory Of Selection Recombination And Mutation
 - Fact-Checking eBook Content of Mathematical Theory Of Selection Recombination And Mutation
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
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