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Mathematics of Genetic Diversity

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Pasquale De Marco



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Understand population dynamics model the spread of diseases and analyze genetic data gaining valuable insights into the complexities of life Explore the deep connection between mathematics and economics where mathematical models empower us to analyze market behavior optimize resource allocation and understand the dynamics of economic systems Discover the diverse applications of mathematics in finance risk management and game theory gaining a deeper appreciation for the role of mathematics in shaping economic policies and decisions Traverse the landscape of mathematics in engineering and technology where mathematical principles guide the design of bridges buildings and aircraft enabling us to push the boundaries of human ingenuity Discover the diverse applications of mathematics in fluid dynamics electrical engineering computer science and robotics witnessing the transformative impact of mathematics on modern technology Navigate the nexus of mathematics and environmental science where mathematical models play a crucial role in understanding and addressing environmental challenges Predict climate change model pollution patterns and optimize strategies for sustainable development gaining insights into the complex interactions between human activities and the natural world Embark on a mathematical odyssey in the digital age where mathematics forms the bedrock of modern technology Explore the mathematical foundations of computer science data science cryptography and network science gaining insights into the algorithms data structures and protocols that power the digital revolution Discover the transformative impact of mathematics on artificial intelligence machine learning and financial technology witnessing the convergence of mathematics and technology in shaping the future of our world Mathematics in Real World Applications is an indispensable resource for students professionals and anyone seeking a deeper understanding of the role of mathematics in shaping our world With its comprehensive coverage of mathematical applications and engaging writing style this book will empower you to tackle real world problems with confidence and make informed decisions in an increasingly complex and data driven world If you like this book write a review

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

Some Mathematical Models from Population Genetics Alison Etheridge, 2011-01-07 Based on the author's lectures at the 2009 St Flour summer school in probability this volume provides an introduction to a range of mathematical models that have their origins in theoretical population genetics

Lectures on Geometric Methods in Mathematical Physics Jerrold E. Marsden, 1981-01-01 A monograph on some of the ways geometry and analysis can be used in mathematical problems of physical interest The roles of symmetry bifurcation and Hamiltonian systems in diverse applications are explored

Mathematics of Planet Earth Hans G. Kaper, Fred S. Roberts, 2019-11-01 Since its inception in 2013 Mathematics of Planet Earth MPE focuses on mathematical issues arising in the study of our planet Interested in the impact of human activities on the Earth's system this multidisciplinary field considers the planet not only as a physical system but also as a system supporting life a system organized by humans and a system at risk The articles collected in this volume demonstrate the breadth of techniques and tools from mathematics statistics and operations research used in MPE Topics include climate modeling the spread of infectious diseases stability of ecosystems ecosystem services biodiversity infrastructure restoration after an extreme event urban environments food security and food safety Demonstrating the mathematical sciences in action this book presents real world challenges for the mathematical sciences highlighting applications to issues of current concern to society Arranged into three topical sections Geo and Physical Sciences Life Sciences Ecology and Evolution Socio economics and Infrastructure thirteen chapters address questions such as how to measure biodiversity what mathematics can say about the sixth mass extinction how to optimize the long term human use of natural capital and the impact of data on infrastructure management The book also treats the subject of infectious diseases with new examples and presents an introduction to the mathematics of food systems and food security Each chapter functions as an introduction that can be studied independently offering source material for graduate student seminars and self study The range of featured research topics provides mathematical scientists with starting points for the study of our planet and the impact of human activities At the same time it offers application scientists a plethora of modern mathematical tools and techniques to address the various topics in practice Including hundreds of references to the vast literature associated with each topic this book serves as an inspiration for further research

Frontiers of Applied and Computational Mathematics Denis L. Blackmore, Amithaba Bose, Peter G. Petropoulos, 2008 This volume contains a selection of papers presented at the 2008 Conference on Frontiers of Applied and Computational Mathematics FACM 08 held at the New Jersey Institute of Technology NJIT May 19-21 2008 The papers reflect the conference themes of mathematical biology mathematical fluid dynamics applied statistics and biostatistics and

waves and electromagnetics Some of the world's most distinguished experts in the conference focus areas provide a unique and timely perspective on leading edge research research trends and important open problems in several fields making it a must read for active mathematical scientists Included are major new contributions by a distinguished trio of plenary speakers Frank Hoppensteadt contributes a thought provoking paper on the evolving relationship between applied mathematics and the computer Pranab Sen explores exciting new trends in computational biology and informatics and Jean Marc Vanden Broeck describes his recent research on 3D free surface flows There are also many innovative contributions by a prestigious group of invited mini symposium speakers making this an indispensable collection for professionals and graduate students in the mathematical sciences and related fields Finally the 75th birthday dedication to Daljit S Ahluwalia for his many contributions to building a world class mathematical sciences department at NJIT adds to making this a one of a kind volume

Applied Mathematics and Omics to Assess Crop Genetic Resources for Climate Change Adaptive Traits

Abdallah Bari, Ardeshir B. Damania, Michael Mackay, Selvadurai Dayanandan, 2018-09-03 Applied Mathematics and Omics to Assess Crop Genetic Resources for Climate Change Adaptive Traits focuses on practical means and approaches to further the use of genetic resources for mitigating the effects of climate change and improving crop production Genetic diversity in crop plants is being further explored to increase yield disease resistance and nutritional value by employing recent advances in mathematics and omics technologies to promote the adaptation of crops to changing climatic conditions This book presents a broad view of biodiversity and genetic resources in agriculture and provides answers to some current problems It also highlights ways to provide much needed information to practitioners and innovators engaged in addressing the effects of global climate change on agriculture The book is divided into sections that cover The implications of climate change for drylands and farming communities The potential of genetic resources and biodiversity to adapt to and mitigate climate change effects Applications of mathematics and omics technologies Genomics and gene identification We are in the midst of significant changes in global climates and its effects are already being felt throughout the world The increasing frequency of droughts and heat waves has had negative impacts on agricultural production especially in the drylands of the world This book shares the collective knowledge of leading scientists and practitioners giving readers a broader appreciation and heightened awareness of the stakes involved in improving and sustaining agricultural production systems in the face of climate change

The Mathematics of Diffusion Wei-Ming Ni, 2011-10-13 Diffusion has been used extensively in many scientific disciplines to model a wide variety of phenomena The Mathematics of Diffusion focuses on the qualitative properties of solutions to nonlinear elliptic and parabolic equations and systems in connection with domain geometry various boundary conditions the mechanism of different diffusion rates and the interaction between diffusion and spatial heterogeneity The book systematically explores the interplay between different diffusion rates from the viewpoint of pattern formation particularly Turing's diffusion driven instability in both homogeneous and heterogeneous environments and the

roles of random diffusion directed movements and spatial heterogeneity in the classical Lotka Volterra competition systems
Interspersed throughout the book are many simple fundamental and important open problems for readers to investigate

Frontiers Of Applied And Computational Mathematics: Dedicated To Daljit Singh Ahluwalia On His 75th Birthday - Proceedings Of The 2008 Conference On Facm'08 Denis Blackmore,Amitabha Bose,Peter G

Petropoulos,2008-11-25 This volume contains a selection of papers presented at the 2008 Conference on Frontiers of Applied and Computational Mathematics FACM 08 held at the New Jersey Institute of Technology NJIT May 19 21 2008 The papers reflect the conference themes of mathematical biology mathematical fluid dynamics applied statistics and biostatistics and waves and electromagnetics Some of the world s most distinguished experts in the conference focus areas provide a unique and timely perspective on leading edge research research trends and important open problems in several fields making it a must read for active mathematical scientists Included are major new contributions by a distinguished trio of plenary speakers Frank Hoppensteadt contributes a thought provoking paper on the evolving relationship between applied mathematics and the computer Pranab Sen explores exciting new trends in computational biology and informatics and Jean Marc Vanden Broeck describes his recent research on 3D free surface flows There are also many innovative contributions by a prestigious group of invited mini symposium speakers making this an indispensable collection for professionals and graduate students in the mathematical sciences and related fields Finally the 75th birthday dedication to Daljit S Ahluwalia for his many contributions to building a world class mathematical sciences department at NJIT adds to making this a one of a kind volume

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heightened awareness of the stakes involved in improving and sustaining agricultural production systems in the face of climate change

Mathematics and 21st Century Biology National Research Council, Division on Engineering and Physical Sciences, Board on Mathematical Sciences and Their Applications, Committee on Mathematical Sciences Research for DOE's Computational Biology, 2005-07-16 The exponentially increasing amounts of biological data along with comparable advances in computing power are making possible the construction of quantitative predictive biological systems models This development could revolutionize those biology based fields of science To assist this transformation the U S Department of Energy asked the National Research Council to recommend mathematical research activities to enable more effective use of the large amounts of existing genomic information and the structural and functional genomic information being created The resulting study is a broad scientifically based view of the opportunities lying at the mathematical science and biology interface The book provides a review of past successes an examination of opportunities at the various levels of biological systems from molecules to ecosystems an analysis of cross cutting themes and a set of recommendations to advance the mathematics biology connection that are applicable to all agencies funding research in this area

Dynamics of Mathematical Models in Biology Alessandra Rogato, Valeria Zazzu, Mario Guarracino, 2016-11-03 This volume focuses on contributions from both the mathematics and life science community surrounding the concepts of time and dynamicity of nature two significant elements which are often overlooked in modeling process to avoid exponential computations The book is divided into three distinct parts dynamics of genomes and genetic variation dynamics of motifs and dynamics of biological networks Chapters included in dynamics of genomes and genetic variation analyze the molecular mechanisms and evolutionary processes that shape the structure and function of genomes and those that govern genome dynamics The dynamics of motifs portion of the volume provides an overview of current methods for motif searching in DNA RNA and proteins a key process to discover emergent properties of cells tissues and organisms The part devoted to the dynamics of biological networks covers networks aptly discusses networks in complex biological functions and activities that interpret processes in cells Moreover chapters in this section examine several mathematical models and algorithms available for integration analysis and characterization Once life scientists began to produce experimental data at an unprecedented pace it became clear that mathematical models were necessary to interpret data to structure information with the aim to unveil biological mechanisms discover results and make predictions The second annual Bringing Maths to Life workshop held in Naples Italy October 2015 enabled a bi directional flow of ideas from and international group of mathematicians and biologists The venue allowed mathematicians to introduce novel algorithms methods and software that may be useful to model aspects of life science and life scientists posed new challenges for mathematicians

Advances in Mathematics for Engineering Sciences Mangey Ram, Shristi Kharola, Akshay Kumar, 2025-09-26 This book highlights the practical benefits of advanced mathematics through real world applications in various engineering fields such as sustainable engineering

innovative algorithms reliability engineering systems engineering and soft computing It covers essential mathematical models for environmental and economic sustainability cutting edge algorithms with practical examples and models in reliability engineering to improve system performance under uncertainty The systems engineering section explores methods for designing and optimizing complex systems with case studies while soft computing delves into fuzzy logic neural networks and genetic algorithms Balancing theory with hands on examples this book simplifies complex topics and offers innovative solutions to global engineering challenges making it an accessible guide for those wanting to deepen their understanding of advanced mathematics in engineering

Parallel Processing and Applied Mathematics Roman Wyrzykowski, 2006-05-17 This volume comprises the proceedings of the 6th International Conference on Parallel Processing and Applied Mathematics PPAM 2005 which was held in Poznan the industrial academic and cultural center in the western part of Poland during September 11-14 2005

An Introduction to Population Genetics Theory J.F. Crow, 2017-01-01 This text book originally published in 1970 presents the field of population genetics starting with elementary concepts and leading the reader well into the field It is concerned mainly with population genetics in a strict sense and deals primarily with natural populations and less fully with the rather similar problems that arise in breeding live stock and cultivated plants The emphasis is on the behavior of genes and population attributes under natural selection where the most important measure is Darwinian fitness This text is intended for graduate students and advanced undergraduates in genetics and population biology This book steers a middle course between completely verbal biological arguments and the rigor of the mathematician The first two thirds of the book do not require advanced mathematical background An ordinary knowledge of calculus will suffice The latter parts of the book which deal with population stochastically use more advanced methods

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