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Mathematical Methods in Biology and Neurobiology Jürgen Jost, 2014-02-13 Mathematical models can be used to meet many of the challenges and opportunities offered by modern biology. The description of biological phenomena requires a range of mathematical theories. This is the case particularly for the emerging field of systems biology. *Mathematical Methods in Biology and Neurobiology* introduces and develops these mathematical structures and methods in a systematic manner. It studies discrete structures and graph theory, stochastic processes, dynamical systems and partial differential equations, optimization and the calculus of variations. The biological applications range from molecular to evolutionary and ecological levels, for example cellular reaction kinetics and gene regulation, biological pattern formation and chemotaxis, the biophysics and dynamics of neurons, the coding of information in neuronal systems, phylogenetic tree reconstruction, branching processes and population genetics, optimal resource allocation, sexual recombination, the interaction of species. Written by one of the most experienced and successful authors of advanced mathematical textbooks, this book stands apart for the wide range of mathematical tools that are featured. It will be useful for graduate students and researchers in mathematics and physics that want a comprehensive overview and a working knowledge of the mathematical tools that can be applied in biology. It will also be useful for biologists with some mathematical background that want to learn more about the mathematical methods available to deal with biological structures and data.

Mathematical Methods in Biology and Neurobiology Jürgen Jost, 2014-03-31 Parabolic Equations in Biology Benoît Perthame, 2015-09-09 This book presents several fundamental questions in mathematical biology such as Turing instability, pattern formation, reaction-diffusion systems, invasion waves and Fokker-Planck equations. These are classical modeling tools for mathematical biology with applications to ecology and population dynamics, the neurosciences, enzymatic reactions, chemotaxis, invasion waves, etc. The book presents these aspects from a mathematical perspective with the aim of identifying those qualitative properties of the models that are relevant for biological applications. To do so, it uncovers the mechanisms at work behind Turing instability, pattern formation and invasion waves. This involves several mathematical tools such as stability and instability analysis, blow-up in finite time, asymptotic methods and relative entropy properties. Given the content presented, the book is well suited as a textbook for master level coursework.

Information Geometry and Population Genetics Julian Hofrichter, Jürgen Jost, Tat Dat Tran, 2017-02-23 The present monograph develops a versatile and profound mathematical perspective of the Wright-Fisher model of population genetics. This well-known and intensively studied model carries a rich and beautiful mathematical structure which is uncovered here in a systematic manner. In addition to approaches by means of analysis, combinatorics and PDE, a geometric perspective is brought in through Amari's and Chentsov's information geometry. This concept allows us to calculate many quantities of interest systematically; likewise, the employed global perspective elucidates the stratification of the model in an unprecedented manner. Furthermore, the links to statistical mechanics and large deviation

theory are explored and developed into powerful tools Altogether the manuscript provides a solid and broad working basis for graduate students and researchers interested in this field

Stochastic Methods in Neuroscience Carlo Laing, Gabriel J Lord, 2009-09-24 Great interest is now being shown in computational and mathematical neuroscience fuelled in part by the rise in computing power the ability to record large amounts of neurophysiological data and advances in stochastic analysis These techniques are leading to biophysically more realistic models It has also become clear that both neuroscientists and mathematicians profit from collaborations in this exciting research area Graduates and researchers in computational neuroscience and stochastic systems and neuroscientists seeking to learn more about recent advances in the modelling and analysis of noisy neural systems will benefit from this comprehensive overview The series of self contained chapters each written by experts in their field covers key topics such as Markov chain models for ion channel release stochastically forced single neurons and populations of neurons statistical methods for parameter estimation and the numerical approximation of these stochastic models Each chapter gives an overview of a particular topic including its history important results in the area and future challenges and the text comes complete with a jargon busting index of acronyms to allow readers to familiarize themselves with the language used

Some Mathematical Questions in Biology, Neurobiology Robert M. Miura, 1982-12-31 This volume contains lectures presented at the 15th annual meeting on mathematical biology organized by a joint AMS SIAM committee as part of the mathematical activities at the annual AAAS meeting held January 7 1982 in Washington D C The meeting was devoted to neurobiology and was very ably organized by Robert M Miura Neurobiology is a very large field and there are many applications of mathematics that could have been selected Miura and the committee wisely chose to concentrate on one or two topics concerned mainly with the properties of individual neurons and their processes In summary this is an excellent collection of articles on some of the more interesting and timely problems of cellular neurobiology The articles especially those by Plant Rinzel and Nicholson and Phillips are all excellent expositions of important problems I recommend this volume to anyone interested in mathematical neurobiology

Mathematical Methods in Biology J. David Logan, William Wolesensky, 2009-08-17 A one of a kind guide to using deterministic and probabilistic methods for solving problems in the biological sciences Highlighting the growing relevance of quantitative techniques in scientific research Mathematical Methods in Biology provides an accessible presentation of the broad range of important mathematical methods for solving problems in the biological sciences The book reveals the growing connections between mathematics and biology through clear explanations and specific interesting problems from areas such as population dynamics foraging theory and life history theory The authors begin with an introduction and review of mathematical tools that are employed in subsequent chapters including biological modeling calculus differential equations dimensionless variables and descriptive statistics The following chapters examine standard discrete and continuous models using matrix algebra as well as difference and differential equations Finally the book outlines probability statistics and

stochastic methods as well as material on bootstrapping and stochastic differential equations which is a unique approach that is not offered in other literature on the topic In order to demonstrate the application of mathematical methods to the biological sciences the authors provide focused examples from the field of theoretical ecology which serve as an accessible context for study while also demonstrating mathematical skills that are applicable to many other areas in the life sciences The book's algorithms are illustrated using MATLAB but can also be replicated using other software packages including R Mathematica and Maple however the text does not require any single computer algebra package Each chapter contains numerous exercises and problems that range in difficulty from the basic to more challenging to assist readers with building their problem solving skills Selected solutions are included at the back of the book and a related Web site features supplemental material for further study Extensively class tested to ensure an easy to follow format Mathematical Methods in Biology is an excellent book for mathematics and biology courses at the upper undergraduate and graduate levels It also serves as a valuable reference for researchers and professionals working in the fields of biology ecology and biomathematics

Statistical Methods in Epilepsy Sharon Chiang, Vikram Rao, Marina Vannucci, 2024-03-25 Epilepsy research promises new treatments and insights into brain function but statistics and machine learning are paramount for extracting meaning from data and enabling discovery Statistical Methods in Epilepsy provides a comprehensive introduction to statistical methods used in epilepsy research Written in a clear accessible style by leading authorities this textbook demystifies introductory and advanced statistical methods providing a practical roadmap that will be invaluable for learners and experts alike Topics include a primer on version control and coding pre processing of imaging and electrophysiological data hypothesis testing generalized linear models survival analysis network analysis time series analysis spectral analysis spatial statistics unsupervised and supervised learning natural language processing prospective trial design pharmacokinetic and pharmacodynamic modeling and randomized clinical trials Features Provides a comprehensive introduction to statistical methods employed in epilepsy research Divided into four parts Basic Processing Methods for Data Analysis Statistical Models for Epilepsy Data Types Machine Learning Methods and Clinical Studies Covers methodological and practical aspects as well as worked out examples with R and Python code provided in the online supplement Includes contributions by experts in the field <https://github.com/sharonchiang> Statistics Epilepsy Book The handbook targets clinicians graduate students medical students and researchers who seek to conduct quantitative epilepsy research The topics covered extend broadly to quantitative research in other neurological specialties and provide a valuable reference for the field of neurology *Basic Concepts in Computational Physics* Benjamin A. Stickler, Ewald Schachinger, 2016-03-21 This new edition is a concise introduction to the basic methods of computational physics Readers will discover the benefits of numerical methods for solving complex mathematical problems and for the direct simulation of physical processes The book is divided into two main parts Deterministic methods and stochastic methods in computational physics Based on concrete problems the first part

discusses numerical differentiation and integration as well as the treatment of ordinary differential equations This is extended by a brief introduction to the numerics of partial differential equations The second part deals with the generation of random numbers summarizes the basics of stochastics and subsequently introduces Monte Carlo MC methods Specific emphasis is on MARKOV chain MC algorithms The final two chapters discuss data analysis and stochastic optimization All this is again motivated and augmented by applications from physics In addition the book offers a number of appendices to provide the reader with information on topics not discussed in the main text Numerous problems with worked out solutions chapter introductions and summaries together with a clear and application oriented style support the reader Ready to use C codes are provided online [Algebraic and Discrete Mathematical Methods for Modern Biology](#) Raina Robeva,2015-05-09

Written by experts in both mathematics and biology Algebraic and Discrete Mathematical Methods for Modern Biology offers a bridge between math and biology providing a framework for simulating analyzing predicting and modulating the behavior of complex biological systems Each chapter begins with a question from modern biology followed by the description of certain mathematical methods and theory appropriate in the search of answers Every topic provides a fast track pathway through the problem by presenting the biological foundation covering the relevant mathematical theory and highlighting connections between them Many of the projects and exercises embedded in each chapter utilize specialized software providing students with much needed familiarity and experience with computing applications critical components of the modern biology skill set This book is appropriate for mathematics courses such as finite mathematics discrete structures linear algebra abstract modern algebra graph theory probability bioinformatics statistics biostatistics and modeling as well as for biology courses such as genetics cell and molecular biology biochemistry ecology and evolution Examines significant questions in modern biology and their mathematical treatments Presents important mathematical concepts and tools in the context of essential biology Features material of interest to students in both mathematics and biology Presents chapters in modular format so coverage need not follow the Table of Contents Introduces projects appropriate for undergraduate research Utilizes freely accessible software for visualization simulation and analysis in modern biology Requires no calculus as a prerequisite Provides a complete Solutions Manual Features a companion website with supplementary resources

Mathematics in Biology Markus Meister,2025 A text on mathematical methods in the life sciences aimed at advanced undergraduate graduate students providing a foundation for understanding the methods used in today s quantitative biology

Mathematical Concepts and Methods in Modern Biology Raina Robeva,Terrell Hodge,2013-02-26 Mathematical Concepts and Methods in Modern Biology offers a quantitative framework for analyzing predicting and modulating the behavior of complex biological systems The book presents important mathematical concepts methods and tools in the context of essential questions raised in modern biology Designed around the principles of project based learning and problem solving the book considers biological topics such as neuronal networks plant population growth metabolic pathways and

phylogenetic tree reconstruction The mathematical modeling tools brought to bear on these topics include Boolean and ordinary differential equations projection matrices agent based modeling and several algebraic approaches Heavy computation in some of the examples is eased by the use of freely available open source software Features self contained chapters with real biological research examples using freely available computational tools Spans several mathematical techniques at basic to advanced levels Offers broad perspective on the uses of algebraic geometry polynomial algebra in molecular systems biology **Mathematical Methods in Biology** John David Logan, William R. Wolessky, 2009 The last several years has witnessed a revolution in the connections between mathematics and biology and this book differs from most others on the topic in that it covers both deterministic and probabilistic models The first chapter is a long introduction and review of ideas about biological modeling calculus differential equations dimensionless variables and descriptive statistics The next three chapters examine standard discrete and continuous models using difference and differential equations and matrix algebra there is a long appendix in Chapter 3 on matrices The final three chapters cover probability statistics and stochastic processes including bootstrap methods and stochastic differential equations The book focuses mostly in one area of the life sciences namely theoretical ecology Ecology has become extremely quantitative and the mathematical techniques used in ecology are applicable to most other areas in the life sciences Ecology provides an especially accessible context for study by mathematics majors Moreover the authors chose ecology for the book's motivations and examples in light of their own interests and research in the area Additional topical coverage includes an introduction to ecological modeling population dynamics for single species structure and interacting populations interactions in continuous time concepts of probability statistical inference and stochastic processes **Introduction to Mathematical Biology** S. I. Rubinow, 1975 A Wiley Interscience publication **Advanced Mathematical Methods in Biosciences and Applications** Faina Berezovskaya, Bourama Toni, 2019-09-19 Featuring contributions from experts in mathematical biology and biomedical research this edited volume covers a diverse set of topics on mathematical methods and applications in the biosciences Topics focus on advanced mathematical methods with chapters on the mathematical analysis of the quasispecies model Arnold's weak resonance equation bifurcation analysis and the Tonnelier Gerstner model Special emphasis is placed on applications such as natural selection population heterogeneity polyvariant ontogeny in plants cancer dynamics and analytical solutions for traveling pulses and wave trains in neural models A survey on quasiperiodic topology is also presented in this book Carefully peer reviewed this volume is suitable for students interested in interdisciplinary research Researchers in applied mathematics and the biosciences will find this book an important resource on the latest developments in the field In keeping with the STEAM H series the editors hope to inspire interdisciplinary understanding and collaboration **Mathematical Topics in Population Biology, Morphogenesis and Neurosciences** Ei Teramoto, Masaya Yamaguti, 2013-03-08 This volume represents the edited proceedings of the International Symposium on Mathematical

Biology held in Kyoto November 10-15 1985 The symposium was organized by an international committee whose members are E Teramoto M Yamaguti S Amari S A Levin H Matsuda A Okubo L M Ricciardi R Rosen and L A Segel The symposium included technical sessions with a total of 11 invited papers 49 contributed papers and a poster session where 40 papers were displayed These Proceedings consist of selected papers from this symposium This symposium was the second Kyoto meeting on mathematical topics in biology The first was held in conjunction with the Sixth International Biophysics Congress in 1978 Since then this field of science has grown enormously and the number of scientists in the field has rapidly increased This is also the case in Japan About 80 young Japanese scientists and graduate students participated this time The sessions were divided into 4 categories 1 Mathematical Ecology and Population Biology 2 Mathematical Theory of Developmental Biology and Morphogenesis 3 Theoretical Neurosciences and 4 Cell Kinetics and Other Topics In every session there were stimulating and active discussions among the participants We are convinced that the symposium was highly successful in transmitting scientific information across disciplines and in establishing fruitful contacts among the participants We owe this success to the cooperation of all participants

Mathematical Modeling of Biological Systems, Volume II Andreas Deutsch, 2007-11-07 This edited volume contains a selection of chapters that are an outgrowth of the European Conference on Mathematical and Theoretical Biology ECMTB05 Dresden Germany July 2005 The peer reviewed contributions show that mathematical and computational approaches are absolutely essential to solving central problems in the life sciences ranging from the organizational level of individual cells to the dynamics of whole populations The contributions indicate that theoretical and mathematical biology is a diverse and interdisciplinary field ranging from experimental research linked to mathematical modelling to the development of more abstract mathematical frameworks in which observations about the real world can be interpreted and with which new hypotheses for testing can be generated Today much attention is also paid to the development of efficient algorithms for complex computations and visualization notably in molecular biology and genetics The field of theoretical and mathematical biology and medicine has profound connections to many current problems of great relevance to society The medical industrial and social interests in its development are in fact undisputable Insights and predictions from mathematical modelling are used increasingly in decision support in medicine e.g immunology and spread of infectious diseases cancer research cardiovascular research neurological research optimization of medical treatments imaging environmental and nature management climate problems agriculture and management of natural resources Fast developments in areas such as biotechnology e.g genome projects genetic modification tissue engineering continue to add new focal points of activity to the field The contributions of this volume capture some of these developments

Mathematical Modeling of Biological Systems, Volume I Andreas Deutsch, Lutz Brusch, Helen Byrne, Gerda de Vries, Hanspeter Herzel, 2007-07-16 Volume I of this two volume interdisciplinary work is a unified presentation of a broad range of state of the art topics in the rapidly growing field of mathematical modeling in the biological sciences The chapters are thematically organized into the

following main areas cellular biophysics regulatory networks developmental biology biomedical applications data analysis and model validation The work will be an excellent reference text for a broad audience of researchers practitioners and advanced students in this rapidly growing field at the intersection of applied mathematics experimental biology and medicine computational biology biochemistry computer science and physics

An Invitation to Biomathematics Raina S. Robeva, 2008 This textbook provides students with a fresh perspective of quantitative techniques in biology in a field where virtually any advance in the life sciences requires a sophisticated mathematical approach It is written by a team of experienced educators and offers students a solid understanding of solving biological problems with mathematical applications It succeeds in enabling students to truly experience advancements made in biology through mathematical models by containing computer based hands on laboratory projects with emphasis on model development model validation and model refinement

Mathematical Modeling of Biological Systems, Volume II Andreas Deutsch, Rafael Bravo de la Parra, Rob J. de Boer, Odo Diekmann, Peter Jagers, Eva Kisdi, Mirjam Kretzschmar, Petr Lansky, Hans Metz, 2007-10-12 Volume II of this two volume interdisciplinary work is a unified presentation of a broad range of state of the art topics in the rapidly growing field of mathematical modeling in the biological sciences Highlighted throughout are mathematical and computational approaches to examine central problems in the life sciences ranging from the organization principles of individual cells to the dynamics of large populations The chapters are thematically organized into the following main areas epidemiology evolution and ecology immunology neural systems and the brain and innovative mathematical methods and education The work will be an excellent reference text for a broad audience of researchers practitioners and advanced students in this rapidly growing field at the intersection of applied mathematics experimental biology and medicine computational biology biochemistry computer science and physics

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