

The background of the book cover is a photograph of fossilized biological structures, likely brachiopods, embedded in a light-colored rock matrix. The fossils show concentric growth lines and are arranged in a somewhat radial pattern.

Mathematical Models *for Society and Biology*

SECOND EDITION | EDWARD BELTRAMI



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language of the field Teaching biological concepts from which models can be developed Richard McElreath and Robert Boyd introduce readers to many of the typical mathematical tools that are used to analyze evolutionary models and end each chapter with a set of problems that draw upon these techniques Mathematical Models of Social Evolution equips behaviorists and evolutionary biologists with the mathematical knowledge to truly understand the models on which their research depends Ultimately McElreath and Boyd s goal is to impart the fundamental concepts that underlie modern biological understandings of the evolution of behavior so that readers will be able to more fully appreciate journal articles and scientific literature and start building models of their own

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

A Course in Mathematical Biology Gerda de Vries,Thomas Hillen,Mark Lewis,Johannes M?ller,Birgitt Sch?nfisch,2006-07-01 This is the only book that teaches all aspects of modern mathematical modeling and that is specifically designed to introduce undergraduate students to problem solving in the context of biology Included is an integrated package of theoretical modeling and analysis tools computational modeling techniques and parameter estimation and model validation methods with a focus on integrating analytical and computational tools in the modeling of biological processes Divided into three parts it covers basic analytical modeling techniques introduces computational tools used in the modeling of biological problems and includes various problems from epidemiology ecology and physiology All chapters include realistic biological examples including many exercises related to biological questions In addition 25 open ended research projects are provided suitable for students An accompanying Web site contains solutions and a tutorial for the implementation of the computational modeling techniques Calculations can be done in modern computing languages such as Maple Mathematica and MATLAB

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Mathematical Models for Therapeutic Approaches to Control Psoriasis

Priti Kumar Roy, Abhirup Datta, 2019-07-18 This book discusses several mathematical models highlighting the disease dynamics of psoriasis and its control It explains the control of keratinocyte concentration through a negative feedback mechanism and the effect of including a realistic time delay in that system The effect of cytokine release is described in a mathematical model of psoriasis and further elucidated in two different mathematical pathways the ordinary differential equation model system and the fractional order differential equation model system The book also identifies the role of CD8 T cells in psoriasis by investigating the interaction between dendritic cells and CD8 T cells Presenting an approach to control the fractional order system to prevent excess production of keratinocyte cell population the book is intended for researchers and scientists in the field of applied mathematics health informatics applied statistics and qualitative public health as well as bio mathematicians interested in the mathematical modeling of autoimmune diseases like psoriasis

A Primer in Mathematical Models in Biology Lee A. Segel, Leah Edelstein-Keshet, 2013-01-01 This textbook introduces differential equations biological applications and simulations and emphasizes molecular events biochemistry and enzyme kinetics excitable systems neural signals and small protein and genetic circuits A Primer on Mathematical Models in Biology will appeal to readers because it grew out of a course that the popular and highly respected applied mathematician Lee Segel taught at the Weizmann Institute and it represents his unique perspective combines clear and useful mathematical methods with applications that illustrate the power of such tools and includes many exercises in reasoning modeling and simulations

Mathematical Models for Therapeutic Approaches to Control HIV Disease Transmission Priti Kumar

Roy, 2015-12-08 The book discusses different therapeutic approaches based on different mathematical models to control the HIV AIDS disease transmission It uses clinical data collected from different cited sources to formulate the deterministic as well as stochastic mathematical models of HIV AIDS It provides complementary approaches from deterministic and stochastic points of view to optimal control strategy with perfect drug adherence and also tries to seek viewpoints of the same issue from different angles with various mathematical models to computer simulations The book presents essential methods and techniques for students who are interested in designing epidemiological models on HIV AIDS It also guides research scientists working in the periphery of mathematical modeling and helps them to explore a hypothetical method by examining its consequences in the form of a mathematical modelling and making some scientific predictions The model equations mathematical analysis and several numerical simulations that are presented in the book would serve to reveal the consequences of the logical structure of the disease transmission quantitatively as well as qualitatively One of the chapters introduces the optimal control approach towards the mathematical models describing the optimal drug dosage process that is

discussed with the basic deterministic models dealing with stability analysis Another one chapter deals with the mathematical analysis for the perfect drug adherence for different drug dynamics during the treatment management The last chapter of the book consists the stochastic approach to the disease dynamics on HIV AIDS This method helps to move the disease HIV AIDS to extinction as the time to increase This book will appeal to undergraduate and postgraduate students as well as researchers who are studying and working in the field of bio mathematical modelling on infectious diseases applied mathematics health informatics applied statistics and qualitative public health etc Social workers who are working in the field of HIV will also find the book useful for complements

Mathematical Models in Cell Biology and Cancer

Chemotherapy M. Eisen,2013-03-13 The purpose of this book is to show how mathematics can be applied to improve cancer chemotherapy Unfortunately most drugs used in treating cancer kill both normal and abnormal cells However more cancer cells than normal cells can be destroyed by the drug because tumor cells usually exhibit different growth kinetics than normal cells To capitalize on this last fact cell kinetics must be studied by formulating mathematical models of normal and abnormal cell growth These models allow the therapeutic and harmful effects of cancer drugs to be simulated quantitatively The combined cell and drug models can be used to study the effects of different methods of administering drugs The least harmful method of drug administration according to a given criterion can be found by applying optimal control theory The prerequisites for reading this book are an elementary knowledge of ordinary differential equations probability statistics and linear algebra In order to make this book self contained a chapter on cell biology and a chapter on control theory have been included Those readers who have had some exposure to biology may prefer to omit Chapter I Cell Biology and only use it as a reference when required However few biologists have been exposed to control theory Chapter 7 provides a short coherent and comprehensible presentation of this subject The concepts of control theory are necessary for a full understanding of Chapters 8 and 9

Biology in Time and Space James P. Keener,2021

Applied Mathematical Models in Human

Physiology Johnny T. Ottesen,Mette S. Olufsen,Jesper K. Larsen,2004-02-01 This book introduces mathematicians to real applications from physiology Using mathematics to analyze physiological systems the authors discuss models reflecting current research in cardiovascular and pulmonary physiology In particular they present models describing blood flow in the heart and the cardiovascular system as well as the transport of oxygen and carbon dioxide through the respiratory system and a model for baroreceptor regulation This is the only book available that analyzes up to date models of the physiological system at several levels of detail both simple real time models that can be directly used in larger systems and more detailed reference models that show the underlying physiological mechanisms and provide parameters for and validation of simpler models The book also covers two dimensional modeling of the fluid dynamics in the heart and its ability to pump and includes a discussion of modeling wave propagation throughout the systemic arteries

Methods of Mathematical Modelling

Thomas Witelski,Mark Bowen,2015-09-18 This book presents mathematical modelling and the integrated process of

formulating sets of equations to describe real world problems It describes methods for obtaining solutions of challenging differential equations stemming from problems in areas such as chemical reactions population dynamics mechanical systems and fluid mechanics Chapters 1 to 4 cover essential topics in ordinary differential equations transport equations and the calculus of variations that are important for formulating models Chapters 5 to 11 then develop more advanced techniques including similarity solutions matched asymptotic expansions multiple scale analysis long wave models and fast slow dynamical systems *Methods of Mathematical Modelling* will be useful for advanced undergraduate or beginning graduate students in applied mathematics engineering and other applied sciences

Complex Systems and Society Nicola Bellomo, Giulia Ajmone Marsan, Andrea Tosin, 2013-05-24 This work aims to foster the interdisciplinary dialogue between mathematicians and socio economic scientists Interaction among scholars and practitioners traditionally coming from different research areas is necessary more than ever in order to better understand many real world problems we face today On the one hand mathematicians need economists and social scientists to better address the methodologies they design in a more realistic way on the other hand economists and social scientists need to be aware of sound mathematical modelling tools in order to understand and ultimately solve the complex problems they encounter in their research With this goal in mind this work is designed to take into account a multidisciplinary approach that will encourage the transfer of knowledge ideas and methodology from one discipline to the other In particular the work has three main themes Demystifying and unravelling complex systems Introducing models of individual behaviours in the social and economic sciences Modelling socio economic sciences as complex living systems Specific tools examined in the work include a recently developed modelling approach using stochastic game theory within the framework of statistical mechanics and progressing up to modeling Darwinian evolution Special attention is also devoted to social network theory as a fundamental instrument for the understanding of socio economic systems

Mathematical Models for Communicable Diseases Fred Brauer, Carlos Castillo-Chavez, 2013-02-07 A self contained and comprehensive guide to the mathematical modeling of disease transmission appropriate for graduate students

Math and Bio 2010 Lynn Arthur Steen, 2005 Math and bio 2010 grew out of Meeting the Challenges Education across the Biological Mathematical and Computer Sciences a joint project of the Mathematical Association of America MAA the National Science Foundation Division of Undergraduate Education NSF DUE the National Institute of General Medical Sciences NIGMS the American Association for the Advancement of Science AAAS and the American Society for Microbiology ASM Foreword p vi

An Introduction to Mathematical Modeling in Physiology, Cell Biology, and Immunology James Sneyd, 2014-05-10 In many respects biology is the new frontier for applied mathematicians This book demonstrates the important role mathematics plays in the study of some biological problems It introduces mathematicians to the biological sciences and provides enough mathematics for bioscientists to appreciate the utility of the modelling approach The book presents a number of diverse topics such as neurophysiology cell biology immunology and

human genetics It examines how research is done what mathematics is used what the outstanding questions are and how to enter the field Also given is a brief historical survey of each topic putting current research into perspective The book is suitable for mathematicians and biologists interested in mathematical methods in biology *Mathematical Models in Biological Discovery* D L Solomon,C F Walter,1977-03-01

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