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Mathematical Ideas In Biology

Mario Bunge



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Mathematical Modelling Techniques Rutherford Aris, 2012-06-29 Engaging elegantly written Applied Mathematical Modelling Mathematical modelling is a highly useful methodology designed to enable mathematicians physicists and other scientists to formulate equations from a given nonmathematical situation In this elegantly written volume a distinguished theoretical chemist and engineer sets down helpful rules not only for setting up models but also for solving the mathematical problems they pose and for evaluating models The author begins with a discussion of the term model followed by clearly presented examples of the different types of models finite statistical stochastic etc He then goes on to discuss the formulation of a model and how to manipulate it into its most responsive form Along the way Dr Aris develops a delightful list of useful maxims for would be modellers In the final chapter he deals not only with the empirical validation of models but also with the comparison of models among themselves as well as with the extension of a model beyond its original domain of validity Filled with numerous examples this book includes three appendices offering further examples treated in more detail These concern longitudinal diffusion in a packed bed the coated tube chromatograph with Taylor diffusion and the stirred tank reactor Six journal articles a useful list of references and subject and name indexes complete this indispensable well written guide A most useful readable and stimulating book to be read both for pleasure and for enlightenment Bulletin of the Institute of Mathematics and Its Applications
Biological Oscillators: Their

Mathematical Analysis Theodosios Pavlidis, 2012-12-02 Biological Oscillators Their Mathematical Analysis introduces the main features of the dynamic properties of biological oscillators and the mathematical techniques necessary for their investigation It is not a comprehensive description of all known biological oscillators since this would require a much bigger volume as well as a different type of expertise Instead certain classes of biological oscillators are described and then only in as much detail as required for the study of their dynamics The opening chapter reviews fundamental mathematical concepts and techniques which will be used in the remainder of the book These include phase plane techniques asymptotic techniques of Krylov Bogoliubov and Mitopolski and the describing function Subsequent chapters discuss examples of biological oscillators phase shifts and phase response curves the entrainment of oscillators by external inputs the dynamics of circadian oscillators effects of changing environment on the dynamics of biological oscillators the features peculiar to populations of

interacting oscillators and biological phenomena attributable to populations of oscillators

Elements of Mathematical Ecology Mark Kot, 2001-07-19 An introduction to classical and modern mathematical models methods and issues in population ecology

Mathematics for the Life Sciences Glenn Ledder, 2013-08-29 Mathematics for the Life Sciences provides present and future biologists with the mathematical concepts and tools needed to understand and use mathematical models and read advanced mathematical biology books It presents mathematics in biological contexts focusing on the central mathematical ideas and providing detailed explanations The author assumes no mathematics background beyond algebra and precalculus Calculus is presented as a one chapter primer that is suitable for readers who have not studied the subject before as well as readers who have taken a calculus course and need a review This primer is followed by a novel chapter on mathematical modeling that begins with discussions of biological data and the basic principles of modeling The remainder of the chapter introduces the reader to topics in mechanistic modeling deriving models from biological assumptions and empirical modeling using data to parameterize and select models The modeling chapter contains a thorough treatment of key ideas and techniques that are often neglected in mathematics books It also provides the reader with a sophisticated viewpoint and the essential background needed to make full use of the remainder of the book which includes two chapters on probability and its applications to inferential statistics and three chapters on discrete and continuous dynamical systems The biological content of the book is self contained and includes many basic biology topics such as the genetic code Mendelian genetics population dynamics predator prey relationships epidemiology and immunology The large number of problem sets include some drill problems along with a large number of case studies The latter are divided into step by step problems and sorted into the appropriate section allowing readers to gradually develop complete investigations from understanding the biological assumptions to a complete analysis

Modelling with Differential and Difference Equations Glenn Fulford, Peter Forrester, Arthur Jones, 1997-06-12 Any student wishing to solve problems via mathematical modelling will find that this book provides an excellent introduction to the subject

Modeling Mathematical Ideas Jennifer M. Suh, Padmanabhan Seshaiyer, 2016-12-27 Modeling Mathematical Ideas combining current research and practical strategies to build teachers and students strategic competence in problem solving This must have book supports teachers in understanding learning progressions that addresses conceptual guiding posts as well as students common misconceptions in investigating and discussing important mathematical ideas related to number sense computational fluency algebraic thinking and proportional reasoning In each chapter the authors opens with a rich real world mathematical problem and presents classroom strategies such as visible thinking strategies technology integration and other related problems to develop students strategic competence in modeling mathematical ideas

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

Basic Mathematics for the Biological and Social Sciences F. H. C. Marriott, 2013-10-22 Basic Mathematics for the Biological and Social Sciences deals with the applications of basic mathematics in the biological and social sciences Mathematical concepts that are discussed in this book include graphical methods differentiation trigonometrical or circular functions limits and convergence integration vectors and differential equations The exponential function and related functions are also considered This monograph is comprised of 11 chapters and begins with an overview of basic algebra followed by an introduction to infinitesimal calculus scalar and vector quantities complex numbers and the simplest types of differential equation The use of graphs in the presentation of data is also described along with limits and convergence rules for differentiation the exponential function and maxima and minima Techniques of integration vectors and their derivatives and simultaneous differential equations are explored as well Examples from biology economics and related subjects probability theory and physics are provided This text will be a useful resource for mathematicians as well as biologists and social scientists interested in applying mathematics to their work

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

Philosophy of Science Mario Bunge, 2017-07-12 Originally published as Scientific Research this pair of volumes constitutes a fundamental treatise on the strategy of science Mario Bunge one of the major figures of the century in the development of a scientific epistemology describes and analyzes scientific philosophy as well as discloses its philosophical presuppositions This work may be used as a map to identify the various stages in the road to scientific knowledge Philosophy of Science is divided into two volumes each with two parts Part 1 offers a preview of the

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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

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