PROBLEM SHEET 1

This problem sheet is due in by **5pm** on **Thursday 27 October 2022**. You may submit it on Gradescope or on paper to my pigeonhole on Level 1 by the car park exit. There is a discretionary mark available for neat and legible solutions.

Topics covered: Chapters 1–2.

1. Consider the following growth model for a population $x(t)$. Known as the Gompertz model, it is given by

$$\frac{dx}{dt} = \alpha x \log\left(\frac{K}{x}\right),\tag{1}$$

   where α and K are positive constants.

   (a) Plot the phase space of this model and use this plot to determine the stability of any equilibria you find.

   (b) Consider now the biological interpretation of this model. What do the terms in the equation represent? And how might you interpret how this model differs from the logistic model? You only need to write a sentence or two.

2. The logistic model for the evolution of a prey species with density $x(t)$ can be adapted to form

$$\frac{dx}{dt} = Rx\left(1 - \frac{x}{K}\right) - P,\tag{2}$$

   where R, K and P are positive constants.

   (a) Provide a brief biological interpretation of this model.

   (b) There is a biological problem with this model at $x = 0$. What is it?

   To fix this problem, consider now the more involved model,

$$\frac{dx}{dt} = Rx\left(1 - \frac{x}{K}\right) - P\left(1 - \exp\left[-\frac{x^2}{\alpha A^2}\right]\right),\tag{3}$$

   where R, K, P, A and α are positive constants.

   (c) The units of x are density, the units of t are time, and α is just a number. By considering the new model, eq. (3), what, therefore, do the units of R, K, P and A have to be?

   (d) By writing

$$x = \hat{x}X, \quad t = \hat{t}T,\tag{4}$$

   where $\hat{x}$ and $\hat{t}$ are nondimensional, show that eq. (3) can be written as

$$\frac{d\hat{x}}{d\hat{t}} = r\hat{x}\left(1 - \frac{\hat{x}}{q}\right) - \left(1 - \exp\left[-\frac{\hat{x}^2}{\alpha}\right]\right),\tag{5}$$

   where you should give the values of X, T, r and q in terms of the original parameters.

Some Mathematical Questions In Biology Iii

KJ Lindholm-Leary

Some Mathematical Questions In Biology Iii:

Some Mathematical Questions in Biology. 11 Jack D. Cowan,1972 **Mathematical Problems in Biology** P. van den Driessche,2013-03-08 A conference on Some Mathematical Problems in Biology was held at the University of Victoria Victoria B C Canada from May 7 10 1973 The participants and invited speakers were mathematicians interested in problems of a biological nature and scientists actively engaged in developing mathematical models in biological fields One aim of the conference was to attempt to assess what the recent rapid growth of mathematical interaction with the biosciences has accomplished and may accomplish in the near future The conference also aimed to expose the problems of communication bet een mathematicians and biological scientists and in doing so to stimulate the interchange of ideas It was recognised that the topic spans an enormous breadth and little attempt was made to balance the very diverse areas Widespread active interest was shown in the conference and just over one hundred people registered The varied departments and institutions across North America from which the participants came made it both academically and geographically mixed The chief activity of the conference was the presentation of papers Nine invited guest speakers see table of contents each gave a one hour talk These covered a wide range of topics There were twenty five shorter twenty minute contributed papers and almost all papers l rere followed by a five minute question and discussion period Duplicated abstracts of presented papers were available at the meeting An evening informal discussion meeting of participants chaired by Dr A B Tayler and led by Drs E M Hagmeier E C **Stochastic versus Deterministic Systems of Differential Equations** G. S. Ladde,M. Sambandham,2003-12-05 This peerless reference text unfurls a unified and systematic study of the two types of mathematical models of dynamic processes stochastic and deterministic as placed in the context of systems of stochastic differential equations Using the tools of variational comparison generalized variation of constants and probability distribution as its methodological backbone Stochastic Versus Deterministic Systems of Differential Equations addresses questions relating to the need for a stochastic mathematical model and the between model contrast that arises in the absence of random disturbances fluctuations and parameter uncertainties both deterministic and stochastic **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office,1979 National Library of Medicine Current Catalog National Library of Medicine (U.S.),1972 First multi year cumulation covers six years 1965 70 **Directory of Published Proceedings** ,1984 **Advances in Morphogenesis** M. Abercrombie,Jean Brachet,Thomas J. King,2013-10-22 Advances in Morphogenesis Volume 10 provides an overview of the state of knowledge in morphogenesis The book contains six chapters and opens with a discussion of the organization center of the amphibian embryo This is followed by separate chapters on physiological gradients in development molecular embryology of the sea urchin mollusks and other invertebrates and changes in DNA RNA and protein during successive phases of embryonic development in vertebrates Subsequent chapters deal with the control of growth in the filamentous prothalli and the causal factors promoting the transition to the two

dimensional gametophyte and the development inheritance and origin of the plastid in Euglena *Foundations of Ecology II* Thomas E. Miller,Joseph Travis,2022-09-06 For three decades Foundations of Ecology edited by Leslie A Real and James H Brown has served as an essential primer for graduate students and practicing ecologists giving them access to the classic papers that laid the foundations of modern ecology alongside commentaries by noted ecologists Ecology has continued to evolve and ecologists Thomas E Miller and Joseph Travis offer here a freshly edited guide for a new generation of researchers The period of 1970 to 1995 was a time of tremendous change in all areas of this discipline from an increased rigor for experimental design and analysis and the reevaluation of paradigms to new models for understanding to theoretical advances Foundations of Ecology II includes facsimiles of forty six papers from this period alongside expert commentaries that discuss a total of fifty three key studies addressing topics of diversity predation complexity competition coexistence extinction productivity resources distribution and abundance The result is more than a catalog of historic firsts this book offers diverse perspectives on the foundational papers that led to today s ecological work Introduction to Mathematics for Life Scientists Edward Batschelet,2012-12-06 From the reviews Here we have a book which we can wholeheartedly suggest The mathematics is sound and pared to essentials the examples are an impressive well chosen selection from the biomathematics literature and the problem sets provide both useful exercises and some fine introductions to the art of modeling Batschelet has written an introduction to biomathematics which is notable for its clarity not only a clarity of presentation but also a clarity of purpose backed by a sure grasp of the field Bulletin of Mathematical Biology 1 For research workers in the biomedical field who feel a need for freshening up their knowledge in mathematics but so far have always been frustrated by either too formal or too boring textbooks there is now exactly what they would like to have an easy to read introduction This book is highly motivating for practical workers because only those mathematical techniques are offered for which there is an application in the life sciences The reader will find it stimulating that each tool described is immediately exemplified by problems from latest publications Int Zeitschrift f r klinische Pharmakologie Therapie und Toxikologie 2 **Mathematical Aspects of Chemical and Biochemical Problems and Quantum Chemistry** Donald S. Cohen,1974 The Publishers' Trade List Annual ,1978 **Introduction to Mathematics for Life Scientists** E. Batschelet,2012-12-06 A few decades ago mathematics played a modest role in life sciences Today however a great variety of mathematical methods is applied in biology and medicine Practically every mathematical procedure that is useful in physics chemistry engineering and economics has also found an important application in the life sciences The past and present training of life scientists does by no means reflect this development However the impact ofthe fast growing number of applications of mathematical methods makes it indispensable that students in the life sciences are offered a basic training in mathematics both on the undergraduate and the graduate level This book is primarily designed as a textbook for an introductory course Life scientists may also use it as a reference to find mathematical methods suitable to their research

problems Moreover the book should be appropriate for self teaching It will also be a guide for teachers Numerous references are included to assist the reader in his search for the pertinent literature **Selected Works of David Brillinger** Peter Guttorp,David Brillinger,2013-04-10 This volume contains 30 of David Brillinger s most influential papers He is an eminent statistical scientist having published broadly in time series and point process analysis seismology neurophysiology and population biology Each of these areas are well represented in the book The volume has been divided into four parts each with comments by one of Dr Brillinger s former PhD students His more theoretical papers have comments by Victor Panaretos from Switzerland The area of time series has commentary by Pedro Morettin from Brazil The biologically oriented papers are commented by Tore Schweder from Norway and Haiganoush Preisler from USA while the point process papers have comments by Peter Guttorp from USA In addition the volume contains a Statistical Science interview with Dr Brillinger and his bibliography *Mathematical Models in the Biosciences II* Michael Frame,2021-01-01 Volume Two of an award winning professor s introduction to essential concepts of calculus and mathematical modeling for students in the biosciences This is the second of a two part series exploring essential concepts of calculus in the context of biological systems Building on the essential ideas and theories of basic calculus taught in Mathematical Models in the Biosciences I this book focuses on epidemiological models mathematical foundations of virus and antiviral dynamics ion channel models and cardiac arrhythmias vector calculus and applications and evolutionary models of disease It also develops differential equations and stochastic models of many biomedical processes as well as virus dynamics the Clancy Rudy model to determine the genetic basis of cardiac arrhythmias and a sketch of some systems biology Based on the author s calculus class at Yale the book makes concepts of calculus less abstract and more relatable for science majors and premedical students **The Major Transitions in Evolution Revisited** Brett Calcott,Kim Sterelny,2011-04-22 Drawing on recent advances in evolutionary biology prominent scholars return to the question posed in a pathbreaking book how evolution itself evolved In 1995 John Maynard Smith and E rs Szathm ry published their influential book The Major Transitions in Evolution The transitions that Maynard Smith and Szathm ry chose to describe all constituted major changes in the kinds of organisms that existed but most important these events also transformed the evolutionary process itself The evolution of new levels of biological organization such as chromosomes cells multicelled organisms and complex social groups radically changed the kinds of individuals natural selection could act upon Many of these events also produced revolutionary changes in the process of inheritance by expanding the range and fidelity of transmission establishing new inheritance channels and developing more open ended sources of variation Maynard Smith and Szathm ry had planned a major revision of their work but the death of Maynard Smith in 2004 prevented this In this volume prominent scholars including Szathm ry himself reconsider and extend the earlier book s themes in light of recent developments in evolutionary biology The contributors discuss different frameworks for understanding macroevolution prokaryote evolution the study of which has been aided by developments in

molecular biology and the complex evolution of multicellularity **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 Use Of Models Soc Science Lyndhurst Collins,2019-07-23 This book deals with the philosophy of model use focuses on the role of models in the natural sciences and introduces a new paradigm to the social sciences catastrophe model It outlines the role of models concerned with conflict problems particularly problems of military strategy Science and Conservation of Vernal Pools in Northeastern North America Aram J. K. Calhoun,Phillip G. DeMaynadier,2007-08-13 Synthesizes Decades of Research on Vernal Pools Science Pulling together information from a broad array of sources Science and Conservation of Vernal Pools in Northeastern North America is a guide to the issues and solutions surrounding seasonal pools Drawing on 15 years of experience the editors have mined published literature Books in Print Supplement ,1984 *The Cracker Mains Exams eBook* Adda 247 Publications,2019-01-21 Mains exams do play a major role in a candidate s final selections as the marks of mains exam are counted in the preparation of final merit list How you perform in the mains examination can make a big difference in your final results in a good way or in a bad way Many of you must be wondering what could be the best way to perform to the best of your ability in the mains level of banking examinations The objective of The Cracker For Bank Mains Exams eBook is to guide the students to make the grades in the mains examinations with the help of tips and solved examples of frequently asked questions It also incorporates the solved exercises set to encourage them to be prepared to face the toughest questions with a decent strategy In this edition there are special tips to solve new pattern questions best step by step approaches to solving lengthy questions and exhaustive study material to help candidates sail through the mains level of any examination The book is updated as per the latest examination pattern and is suitable for all the Mains Examinations such as SBI RBI IBPS NICL AO LIC GIC UIIC Others Special Features of The Cracker For Bank Mains Exams Quantitative Aptitude 800 questions Reasoning Ability 550 questions English language 550 questions Latest pattern questions based on 2018 and 2017 examinations 100 most important banking awareness questions Step by step approach to solving lengthy and difficult questions

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