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# **Oscillations In Mathematical Biology**

Lansun Chen, Shigui Ruan, Jun Zhu

## Oscillations In Mathematical Biology:

**Oscillations in Mathematical Biology** J.P.E. Hodgson, 2013-03-13 The papers in this volume are based on talks given at a one day conference held on the campus of Adelphi University in April 1982 The conference was organized with the title Oscillations in Mathematical Biology however the speakers were allowed considerable latitude in their choice of topics In the event the talks all concerned the dynamics of non linear systems arising in biology so that the conference achieved a good measure of cohesion Some of the speakers cho e not to submit a manuscript for these proceedings feeling that their material was too conjectural to be committed to print Also the paper of Rinzel and Troy is a distillation of the two separate talks that the authors gave Otherwise the material reproduces the conference proceedings The conference was made possible by the generous support of the Office of the Dean of the College of Arts and Sciences at Adelphi The bulk of the organization of the conference was carried out by Dr Ronald Grisell whose energy was in large measure responsible for the success of the conference Nonlinear Oscillations in Biology F. C. Hoppensteadt, 1979 Oscillation and Stability of Delay Models in Biology Ravi P. Agarwal, Donal O'Regan, Samir H. Saker, 2014-06-07 Environmental variation plays an important role in many biological and ecological dynamical systems This monograph focuses on the study of oscillation and the stability of delay models occurring in biology The book presents recent research results on the qualitative behavior of mathematical models under different physical and environmental conditions covering dynamics including the distribution and consumption of food Researchers in the fields of mathematical modeling mathematical biology and population dynamics will be particularly interested in this material Oscillations in Mathematical Biology David H. Anderson, 1983 Nonlinear Oscillations in Biology Summer Seminar on Applied Mathematics Staff, **Nonlinear Oscillations in Biology and Chemistry** Hans G. Othmer, 2013-03-08 This volume contains the proceedings of a meeting entitled Nonlinear Oscillations in Biology and Chemistry which was held at the University of Utah May 9 11 1985 The papers fall into four major categories i those that deal with biological problems particularly problems arising in cell biology ii those that deal with chemical systems iii those that treat problems which arise in neurophysiology and iv those whose primary emphasis is on more general models and the mathematical techniques involved in their analysis Except for the paper by Auchmuty all are based on talks given at the meeting The diversity of papers gives some indication of the scope of the meeting but the printed word conveys neither the degree of interaction between the participants nor the intellectual sparks generated by that interaction The meeting was made possible by the financial support of the Department of Mathe matics of the University of Utah I am indebted to Ms Toni Bunker of the Department of Mathematics for her very able assistance on all manner of details associated with the organization of the meeting Finally a word of thanks to all participants for their con tributions to the success of the meeting and to the contributors to this volume for their efforts in preparing their manuscripts **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 or ganized 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 Biological Clocks, Rhythms, and Oscillations Daniel B. Forger, 2017-11-16 An introduction to the mathematical computational and analytical techniques used for modeling biological rhythms presenting tools from many disciplines and example applications All areas of biology and medicine contain rhythms and these behaviors are best understood through mathematical tools and techniques This book offers a survey of mathematical computational and analytical techniques used for modeling biological rhythms gathering these methods for the first time in one volume Drawing on material from such disciplines as mathematical biology nonlinear dynamics physics statistics and engineering it presents practical advice and techniques for studying biological rhythms with a common language The chapters proceed with increasing mathematical abstraction Part I on models highlights the implicit assumptions and common pitfalls of modeling and is accessible to readers with basic knowledge of differential equations and linear algebra Part II on behaviors focuses on simpler models describing common properties of biological rhythms that range from the firing properties of squid giant axon to human circadian rhythms Part III on mathematical techniques guides readers who have specific models or goals in mind Sections on frontiers present the latest research theory sections present interesting mathematical results using more accessible approaches than can be found elsewhere Each chapter offers exercises Commented MATLAB code is provided to help readers get practical experience The book by an expert in the field can be used as a textbook for undergraduate courses in mathematical biology or graduate courses in modeling biological rhythms and as a reference for researchers Biological Clocks, Rhythms, and Oscillations Daniel B. Forger, 2024-08-06 An introduction to the mathematical computational and analytical techniques used for modeling biological rhythms presenting tools from many disciplines and example applications All areas of biology and medicine contain rhythms and these behaviors are best understood through mathematical tools and

techniques This book offers a survey of mathematical computational and analytical techniques used for modeling biological rhythms gathering these methods for the first time in one volume Drawing on material from such disciplines as mathematical biology nonlinear dynamics physics statistics and engineering it presents practical advice and techniques for studying biological rhythms with a common language The chapters proceed with increasing mathematical abstraction Part I on models highlights the implicit assumptions and common pitfalls of modeling and is accessible to readers with basic knowledge of differential equations and linear algebra Part II on behaviors focuses on simpler models describing common properties of biological rhythms that range from the firing properties of squid giant axon to human circadian rhythms Part III on mathematical techniques guides readers who have specific models or goals in mind Sections on frontiers present the latest research theory sections present interesting mathematical results using more accessible approaches than can be found elsewhere Each chapter offers exercises Commented MATLAB code is provided to help readers get practical experience The book by an expert in the field can be used as a textbook for undergraduate courses in mathematical biology or graduate Mathematical Biology James D. courses in modeling biological rhythms and as a reference for researchers Murray, 2007-06-12 It has been over a decade since the release of the now classic original edition of Murray's Mathematical Biology Since then mathematical biology has grown at an astonishing rate and is well established as a distinct discipline Mathematical modeling is now being applied in every major discipline in the biomedical sciences Though the field has become increasingly large and specialized this book remains important as a text that introduces some of the exciting problems that arise in biology and gives some indication of the wide spectrum of questions that modeling can address Due to the tremendous development in the field this book is being published in two volumes. This first volume is an introduction to the field the mathematics mainly involves ordinary differential equations that are suitable for undergraduate and graduate courses at different levels For this new edition Murray is covering certain items in depth giving new applications such as modeling marital interactions and temperature dependence sex determination SIAM 2004 Murray s Mathematical Biology is a classic that belongs on the shelf of any serious student or researcher in the field Together the two volumes contain well over 1000 references a rich source of material together with an excellent index to help readers quickly find key words I recommend the new and expanded third edition to any serious young student interested in mathematical biology who already has a solid basis in applied mathematics Advanced Topics In Biomathematics: Proceedings Of The International Conference On Mathematical Biology Lansun Chen, Shigui Ruan, Jun Zhu, 1998-06-30 This book provides an excellent overview of current developments in a wide range of topics in biomathematics such as population dynamics neural networks fishery markets transmission of infectious diseases genetic analysis biostatistics and biomechanics The contributors are leading researchers from Australia Canada the People's Republic of China Hungary Iceland Italy Japan Singapore and the USA Problems on Oscillations and Pattern Formation in Mathematical Biology Georgiy S. Medvedev, 1999

Introduction to Mathematical Biology Ching Shan Chou, Avner Friedman, 2016-04-27 This book is based on a one semester course that the authors have been teaching for several years and includes two sets of case studies The first includes chemostat models predator prey interaction competition among species the spread of infectious diseases and oscillations arising from bifurcations In developing these topics readers will also be introduced to the basic theory of ordinary differential equations and how to work with MATLAB without having any prior programming experience The second set of case studies were adapted from recent and current research papers to the level of the students Topics have been selected based on public health interest This includes the risk of atherosclerosis associated with high cholesterol levels cancer and immune interactions cancer therapy and tuberculosis Readers will experience how mathematical models and their numerical simulations can provide explanations that guide biological and biomedical research Considered to be the undergraduate companion to the more advanced book Mathematical Modeling of Biological Processes A Friedman C Y Kao Springer 2014 this book is geared towards undergraduate students with little background in mathematics and no biological background

**Nonlinear Oscillations in Biology and Chemistry** Hans G Othmer, 1986-05-01 Nonlinear Oscillations in Biology Frank C. Hoppensteadt, 1979 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 Frontiers in Mathematical Biology Simon A. Levin, 2013-03-13 From a mathematical point of view physiologically structured population models are an underdeveloped branch of the theory of infinite dimensional dynamical systems We have called attention to four aspects i A choice has to be made about the kind of equations one extracts from the predominantly verbal arguments about the basic assumptions and subsequently uses as a starting point for a rigorous mathematical analysis Though differential equations are easy to formulate different mechanisms don t interact in infinites imal time intervals and so end up as separate terms in the equations they may be hard to interpret rigorously as infinitesimal generators Integral equations constitute an attractive alternative ii The ability of physiologically structured population models to increase our un derstanding of the relation between mechanisms at the i level and phenomena at the p level will depend strongly on the development of dynamical systems lab facilities which are applicable to this class of models iii Physiologically structured population models are ideally suited for the for mulation of evolutionary questions Apart from the special case of age see Charlesworth 1980 Yodzis 1989 Caswell 1989 and the references given there hardly any theory exists at the moment This will hopefully change rapidly in the coming years Again the development of appropriate software may turn out to be crucial Oscillation Theory for Neutral Differential Equations with Delay D.D Bainov, D.P Mishev, 1991-01-01 With neutral differential equations any lack of smoothness in initial conditions is not

damped and so they have proven to be difficult to solve Until now there has been little information to help with this problem Oscillation Theory for Neutral Differential Equations with Delay fills a vacuum in qualitative theory of functional differential equations of neutral type With much of the presented material previously unavailable outside Eastern Europe this authoritative book provides a stimulus to research the oscillatory and asymptotic properties of these equations It examines equations of first second and higher orders as well as the asymptotic behavior for tending toward infinity These results are then generalized for partial differential equations of neutral type The book also describes the historical development of the field and discusses applications in mathematical models of processes and phenomena in physics electrical control and engineering physical chemistry and mathematical biology This book is an important tool not only for mathematicians but also for specialists in many fields including physicists engineers and biologists It may be used as a graduate level textbook or as a reference book for a wide range of subjects from radiophysics to electrical and control engineering to biological science

Oscillations in Planar Dynamic Systems Ronald E. Mickens,1996 This book provides a concise presentation of the major techniques for determining analytic approximations to the solutions of planar oscillatory dynamic systems These systems model many important phenomena in the sciences and engineering In addition to the usual perturbation procedures the book gives the details of when and how to correctly apply the method of harmonic balance for both first order and higher order calculations This procedure is rarely given or discussed fully in standard textbooks The basic philosophy of the book stresses how to initiate and complete the calculation of approximate solutions This is done by a clear presentation of necessary background materials and by the working out of many examples *Journal of Mathematical Biology*, 1985 Publishes papers in which mathematics is used to understand biological phenomena and mathematical papers which answer questions arising from models of biological phenomena

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