Biomathematics Volume 4

M. losifescu · P. Tautu
Stochastic
Processes and
Applications
in Biology and
Medicine II
Models



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D.E. Matthews

Diffusion Processes and Related Topics in Biology Luigi M. Ricciardi, 2013-03-13 These notes are based on a one guarter course given at the Department of Biophysics and Theoretical Biology of the University of Chicago in 1916 The course was directed to graduate students in the Division of Biological Sciences with interests in population biology and neurobiology Only a slight acquaintance with probability and differential equations is required of the reader Exercises are interwoven with the text to encourage the reader to play a more active role and thus facilitate his digestion of the material One aim of these notes is to provide a heuristic approach using as little mathematics as possible to certain aspects of the theory of stochastic processes that are being increasingly employed in some of the population biol ogy and neurobiology literature While the subject may be classical the nov elty here lies in the approach and point of view particularly in the applications such as the approach to the neuronal firing problem and its related diffusion approximations It is a pleasure to thank Professors Richard C Lewontin and Arnold J F Siegert for their interest and support and Mrs Angell Pasley for her excellent and careful typing I PRELIMINARIES 1 Terminology and Examples Consider an experiment specified by a the experiment s outcomes forming the The Belousov-Zhabotinskii Reaction space S b certain subsets of S called events and by the probabilities of these events J.J. Tyson, 2013-03-13 In 1958 B P Belousov discovered that the oxidation of citric acid by bromate in the presence of cerium ions does not proceed to equilibrium methodically and uniformly like most chemical reactions but rather oscillates with clocklike precision between a yellow and colorless state See Fig 11 1 p 30 A M Zhabotinskii followed up on Belousov s original observation and in 1964 his first investigations appeared in the Russian journal Biofizika Though H Degn in Copenhagen at the time knew of Zhabotinskii s work and published his own account of the mechanism of oscillation in Nature 1967 this interesting reaction attracted little attention among Western scientists until 1968 when Zhabotinskii and his coworkers and Busse from Braunschweig W Germany reported on their work at an international conference on biological and biochemical oscillators held in Prague Shortly thereafter appeared a flurry of papers on temporal oscillations and spatial patterns in this reaction system Vavilin and Zhabotinskii 1969 and later Kasperek and Bruice 1971 studied the kinetics of the oxidation 3 of Ce by Br0 and the oxidation of organic species by Ce 4 Busse 1969 3 reported his observation of colored bands of chemical activity propagating up and down in a long tube of unstirred solution Zaikin and Zhabotinskii 1970 observed circular chemical waves in thin layers of solution Complexity, Language, and Life: Mathematical Approaches John L. Casti, Anders Karlqvist, 2012-12-06 In May 1984 the Swedish Council for Scientific Research convened a small group of investigators at the scientific research station at Abisko Sweden for the purpose of examining various conceptual and mathematical views of the evolution of complex systems The stated theme of the meeting was deliberately kept vague with only the purpose of discussing alternative mathematically based approaches to the modeling of evolving processes being given as a guideline to the participants In order to limit the scope to some degree it was decided to emphasize living rather

than nonliving processes and to invite participants from a range of disciplinary specialities spanning the spectrum from pure and applied mathematics to geography and analytic philosophy The results of the meeting were quite extraordinary while there was no intent to focus the papers and discussion into predefined channels an immediate self organizing effect took place and the deliberations quickly oriented themselves into three main streams conceptual and formal structures for characterizing sys tem complexity evolutionary processes in biology and ecology the emergence of complexity through evolution in natural lan guages The chapters presented in this volume are not the proceed ings of the meeting Following the meeting the organizers felt that the ideas and spirit of the gathering should be preserved in some written form so the participants were each requested to produce a chapter explicating the views they presented at Abisko written specifically for this volume The results of this exercise form the volume you hold in your hand Selection in One- and Two-Locus Systems T. Nagylaki, 2012-12-06 Most of these notes were presented as part of a two quarter course on theoretical population genetics at The University of Chicago Almost all the students were either undergraduates in mathematics or graduate students in the biological sciences The only prerequisites were calculus and matrices As is done in these notes biological background and additional mathematical techniques were covered when they were required I have included the relevant problems assigned in the course My aim in these notes is to formulate the various models fairly generally making the biological assumptions quite explicit and to perform the analyses relatively rigorously I hope the choice and treatment of topics will enable the reader to understand and evaluate detailed analyses of specific models and applications in the literature No attempt has been made to review the literature or to assign credit Most of the references are to papers directly germane to the subjects and approaches covered here Frequency of reference is not intended to reflect proportionate contribution I am very grateful to Professor James F Crow for helpful comments and to Mrs Adelaide Jaffe for her excellent typing I thank the National Science Foundation for its support Grant No DEB76 01550 Deterministic Aspects of Mathematical Demography J. Impagliazzo, 2012-12-06 Mathematical Demography the study of population and its analysis through mathematical models has received increased interest in the mathematical com munity in recent years It was not until the twentieth century however that the study of population predominantly human population achieved its math ematical character The subject of mathematical demography can be viewed from either a deterministic viewpoint or from a stochastic viewpoint For the sake of brevity stochastic models are not included in this work It is therefore my intention to consider only established deterministic models in this discussion starting with the life table as the earliest model to a generalized matrix model which is developed in this treatise These deterministic models provide sufficient de velopment and conclusions to formulate sound mathematical population analy sis and estimates of population projections It should be noted that although the subject of mathematical demography focuses on human populations the development and results may be applied to any population as long as the preconditions that make the model valid are maintained Information concerning mathematical

demography is at best fragmented Mathematics and the Life Sciences D.E. Matthews, 2013-03-13 For two weeks in August 1975 more than 140 mathematicians and other scientists gathered at the Universite de Sherbrooke The occasion was the 15th Biennial Seminar of the Canadian Mathematical Congress entitled Mathematics and the Life Sciences Participants in this inter disciplinary gathering included researchers and graduate students in mathematics seven different areas of biological science physics chemistry and medical science Geographically those present came from the United States and the United Kingdom as well as from academic departments and government agencies scattered across Canada In choosing this particular interdisciplinary topic the programme committee had two chief objectives These were to promote Canadian research in mathematical problems of the life sciences and to encourage co operation and exchanges between mathematical scientists biologists and medical re-searchers To accomplish these objective the committee assembled a stim ulating programme of lectures and talks Six principal lecturers each delivered a series of five one hour lectures in which various aspects of the interaction between mathematics and the life sciences were considered In addition researchers working in the areas of health population biology physiology and development biology and disease processes were invited to give more than 25 hours of complementary talks Integrodifferential Equations and Delay Models in Population Dynamics J. M. Cushing, 2013-03-08 These notes are for the most part the result of a course I taught at the University of Arizona during the Spring of 1977 Their main purpose is to investigate the effect that delays of Volterra integral type have when placed in the differential models of mathematical ecology as far as stability of equilibria and the nature of oscillations of species densities are concerned A secondary pur pose of the course out of which they evolved was to give students an at least elementary introduction to some mathematical modeling in ecology as well as to some purely mathematical subjects such as stability theory for integrodifferentia1 systems bifurcation theory and some simple topics in perturbation theory. The choice of topics of course reflects my personal interests and while these notes were not meant to exhaust the topics covered I think they and the list of refer ences come close to covering the literature to date as far as integrodifferentia1 models in ecology are concerned I would like to thank the students who took the course and consequently gave me the opportunity and stimulus to organize these notes Special thanks go to Professor Paul Fife and Dr George Swan who also sat in the course and were quite helpful with their comments and observations Also deserving thanks are Professor Robert O Malley and Ms Louise C Fields of the Applied Mathematics Program here at the University of Arizona Ms Fields did an outstandingly efficient and accurate typing of the manuscript A Stochastic Model for Immunological Feedback in Carcinogenesis: Analysis and *Approximations* N. Dubin, 2013-03-13 Stochastic processes often pose the difficulty that as soon as a model devi ates from the simplest kinds of assumptions the differential equations obtained for the density and the generating functions become mathematically formidable Worse still one is very often led to equations which have no known solution and don t yield to standard analytical methods for differential equations In the model considered here one for tumor growth with an

immunological re sponse from the normal tissue a nonlinear term in the transition probability for the death of a tumor cell leads to the above mentioned complications Despite the mathematical disadvantages of this nonlinearity we are able to consider a more sophisticated model biologically Ultimately in order to achieve a more realistic representation of a complicated phenomenon it is necessary to examine mechanisms which allow the model to deviate from the more mathematically tractable linear format Thus far stochastic models for tumor growth have almost exclusively considered linear The Genetic Structure of Populations A. Jacquard, 2012-12-06 It is part of the ideology of transition probabilities science that it is an international enterprise carried out by a community that knows no barriers of nation or culture But the reality is somewhat different Despite the best intentions of scientists to form a single community unseparated by differences of national and political viewpoint they are in fact separated by language Scientific literature in German is not generally assimilated by French workers nor that appearing in French by those whose native language is English The problem appears to have become more severe since the last war because the ascendance of the United States as the preeminent economic power led in a time of big and expensive science to a pre dominance of American scientific production and a growing tendency at least among English speakers to regard English as the international language of science International congresses and journals of world circulation have come more and more to take English as their standard or official language As a result students and scientific workers in the English speaking world have become more linguistically parochial than ever before and have been cut off from a considerable scientific literature Population genetics has been no exception to the rule The elegant and extremely innovative theoretical work of Malecot for example is only now being properly assimilated by population biologists outside France It was therefore with some sense of frustration that I read Prof Ion Transport through Biological Membranes M.C. Mackey, 2013-03-13 This book illustrates some of the ways physics and mathematics have been and are being used to elucidate the underlying mechan isms of passive ion movement through biological membranes in general and the membranes of excitable cells in particular I have made no effort to be comprehensive in my introduction of biological material and the reader interested in a brief account of single cell electro physlology from a physically oriented biologists viewpoint will find the chapters by Woodbury 1965 an excellent introduction Part I is introductory in nature exploring the basic electrical properties of inexcitable and excitable cell plasma membranes Cable theory is utilized to illustrate the function of the non decrementing action potential as a signaling mechanism for the long range trans mission of information in the nervous system and to gain some in sight into the gross behaviour of neurons The detailed analysis of Hodgkin and Huxley on the squid giant axon membrane ionic conductance properties is reviewed briefly and some facets of membrane behaviour that have been revealed since the appearance of their work are dis cussed Part II examines the foundations of electrodiffusion theory and the use of that theory in trying to develop quantitative expla nations of the observed membrane properties of excitable cells in particular the squid giant axon In addition an ad hoc

formulation of electrodiffusion theory including active transport is presented to illustrate the qualitative nature of cellular homeostasis with respect to intracellular ionic concentrations and membrane potential and cellular responses to prolonged stimUlation

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