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George W. Swan

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Mathematical Modeling of the Hearing Process M.H. Holmes,L.A. Rubenfeld,2013-03-13 The articles of these proceedings arise from a NSF CBMS regional conference on the mathematical modeling of the hearing process that was held at Rensselaer Polytechnic Institute in the summer of 1980 To put the a ticles in perspective it is best to briefly review the history of suc modeling It has proceeded more or less in three stages The first was initiated by Herman Helmholtz in the 1880 s whose theories dominated the subject for years However because of his lack of accurate experimental data and his heuristic arguments it became apparent that his models needed revision Accordingly based on the experimental observations of von Bekesy the long wave theories were developed in the 1950 s by investigators such as Zwislocki Peterson and Bogert However as the ex eri ents became more refined such as Rhode s wssbauer Measurements even these models came into question This has brought on a flurry of activity in recent years into how to extend the models to account for these more recent eXT lerimental observations One approach is through a device co monly refered to as a second filter see Allen s article and another is through a more elaborate hydroelastic model see Chadwick s article In conjunction with this latter approach there has been some recent work on developing a low frequency model of the cochlea see Holmes article *Stochastic Transport Processes in Discrete Biological Systems* Eckart Frehland,2013-03-13 These notes are in part based on a course for advanced students in the applications of stochastic processes held in 1978 at the University of Konstanz These notes contain the results of re cent studies on the stochastic description of ion transport through biological membranes In particular they serve as an introduction to an unified theory of fluctuations in complex biological transport systems We emphasize that the subject of this volume is not to introduce the mathematics of stochastic processes but to present a field of theoretical biophysics in which stochastic methods are important In the last years the study of membrane noise has become an important method in biophysics Valuable information on the ion transport mechanisms in membranes can be obtained from noise analysis A number of different processes such as the opening and closing of ion channels have been shown to be sources of the measured current or voltage fluctuations Bio logical transport systems can be complex For example the transport process can be coupled to other processes such as chemical reactions and take place in discontinuous structures of molecular dimensions Furthermore since there are strong electric fields or high concentration gradients across biological membranes ion transport processes of biological relevance are mostly processes far from equilibrium For these reasons the development of new theoretical concepts has been necessary The concept of transport in discrete systems has turned out to be more appropriate than continuum models **Recognition of Pattern and Form** Duane G. Albrecht,2013-03-08

Competition and Cooperation in Neural Nets S. Amari,M. A. Arbib,2013-03-08 The human brain wi th its hundred billion or more neurons is both one of the most complex systems known to man and one of the most important The last decade has seen an explosion of experimental research on the brain but little theory of neural networks beyond the study of electrical

properties of membranes and small neural circuits Nonetheless a number of workers in Japan the United States and elsewhere have begun to contribute to a theory which provides techniques of mathematical analysis and computer simulation to explore properties of neural systems containing immense numbers of neurons Recently it has been gradually recognized that rather independent studies of the dynamics of pattern recognition pattern format ion motor control self organization etc in neural systems do in fact make use of common methods We find that a competition and cooperation type of interaction plays a fundamental role in parallel information processing in the brain The present volume brings together 23 papers presented at a U S Japan Joint Seminar on Competition and Cooperation in Neural Nets which was designed to catalyze better integration of theory and experiment in these areas It was held in Kyoto Japan February 15 19 1982 under the joint sponsorship of the U S National Science Foundation and the Japan Society for the Promotion of Science Participants included brain theorists neurophysiologists mathematicians computer scientists and physicists There are seven papers from the U S

Stochastic Methods in Biology Motoo Kimura,Gopinath Kallianpur,Takeyuki Hida,2013-03-13 The use of probabilistic methods in the biological sciences has been so well established by now that mathematical biology is regarded by many as a distinct dis cipline with its own repertoire of techniques The purpose of the Workshop on sto chastic methods in biology held at Nagoya University during the week of July 8 12 1985 was to enable biologists and probabilists from Japan and the U S to discuss the latest developments in their respective fields and to exchange ideas on the ap plicability of the more recent developments in stochastic process theory to problems in biology Eighteen papers were presented at the Workshop and have been grouped under the following headings I Population genetics five papers II Measure valued diffusion processes related to population genetics three papers III Neurophysiology two papers IV Fluctuation in living cells two papers V Mathematical methods related to other problems in biology epidemiology population dynamics etc six papers An important feature of the Workshop and one of the reasons for organizing it has been the fact that the theory of stochastic differential equations SDE s has found a rich source of new problems in the fields of population genetics and neuro biology This is especially so for the relatively new and growing area of infinite dimensional i e measure valued or distribution valued SDE s The papers in II and III and some of the papers in the remaining categories represent these areas **Population Genetics in Forestry** Hans-Rolf Gregorius,2013-03-13 When we consider the main object of forestry the tree it immediately becomes clear why experimental population geneticists have been so hesitant in making this object a primary concern of their research Trees are very long living organisms with generation intervals frequently exceeding those of their investigators by multiples They virtually exclude therefore application of the classical methods of population genetics since these are based on observing genetic structures over generations This situation where the limits set to observation are so severe particularly requires close cooperation between theory and experiment It also requires careful consideration of results obtained for organisms other than trees in order to gain additional insights by comparing the results for trees with those for other organisms Yet the

greatest challenge to population and ecological genetics probably originates from the fact that forests are very likely to be the most complex ecosystems of all even in some cases where they are subject to intense management This complexity which equally comprises biotic and abiotic factors varying both in time and space makes extremely high demands on the adaptational capacity and thus flexibility of the carriers of such an ecosystem Longevity combined with immobility during the vegetative phase however appears to contradict the obvious necessity of adaptational flexibility in forest tree populations when compared with short lived and or mobile organisms **Analele științifice ale Universității "Al. I. Cuza" din Iași** Universitatea "Al. I. Cuza" din Iași,1982 Optimization of Human Cancer Radiotherapy George W. Swan,1981 The mathematical models in this book are concerned with a variety of approaches to the manner in which the clinical radiologic treatment of human neoplasms can be improved These improvements comprise ways of delivering radiation to the malignan cies so as to create considerable damage to tumor cells while sparing neighboring normal tissues There is no unique way of dealing with these improvements Accord ingly in this book a number of different presentations are given Each presentation has as its goal some aspect of the improvement or optimization of radiotherapy This book is a collection of current ideas concerned with the optimization of human cancer radiotherapy It is hoped that readers will build on this collection and develop superior approaches for the understanding of the ways to improve therapy The author owes a special debt of thanks to Kathy Prindle who breezed through the typing of this book with considerable dexterity TABLE OF CONTENTS Chapter GENERAL INTRODUCTION 1 1 Introduction 1 1 2 History of Cancer and its Treatment by Radiotherapy 8 1 3 Some Mathematical Models of Tumor Growth 12 1 4 Spatial Distribution of the Radiation Dose 20 Chapter 2 SURVIVAL CURVES FROM STATISTICAL MODELS 24 2 1 Introduction 24 2 2 The Target Model 26 2 3 Single hit to kill Model 27 2 4 Multitarget Single hit Survival 29 2 5 Multitarget Multihit Survival 31 2 6 Single target Multihit Survival 31 2 *Analele științifice ale Universității "Al. I. Cuza" din Iași* ,1981 **Trees and Hierarchical Structures** Andreas Dress,Arndt van Haeseler,2013-03-09 The raison d etre of hierarchical dustering theory stems from one basic phe nomenon This is the notorious non transitivity of similarity relations In spite of the fact that very often two objects may be quite similar to a third without being that similar to each other one still wants to dassify objects according to their similarity This should be achieved by grouping them into a hierarchy of non overlapping dusters such that any two objects in ne duster appear to be more related to each other than they are to objects outside this duster In everyday life as well as in essentially every field of scientific investigation there is an urge to reduce complexity by recognizing and establishing reasonable das sification schemes Unfortunately this is counterbalanced by the experience of seemingly unavoidable deadlocks caused by the existence of sequences of objects each comparatively similar to the next but the last rather different from the first

Medical and Health Care Books and Serials in Print ,1986 Cell Kinetic Modelling and the Chemotherapy of Cancer Helmut Knolle,1988 This monograph establishes a necessary link between experimental cancer research and

mathematical modelling of cell population and presents a new approach to the old problem of building a rational basis for the design of radio and chemotherapy of cancer Rather than embark straightaway on model building the author gives priority to the determination of action parameters of cytotoxic drugs A survey of autoradiographic experiments and evaluation methods in cell kinetics is given and classical formulae in this field are improved or generalized The cell cycle retarding effect of certain drugs which in the past raised some controversy is described in a concise quantitative frame work Finally a mathematical model of cell populations under treatment is tested against data from experiments with cell cycle phase specific drugs and is applied to the problem of choosing optimal time schedules of chemotherapy The book will serve as a guide to mathematical cell kinetics for biologists as well as an introduction to the biomedical environment of the field for mathematicians A knowledge of matrix algebra calculus and ordinary differential equations is expected of the reader but is not essential for using the results in the design and evaluation of cell kinetic experiments **Journal of Mathematical Biology** ,1983 **Oscillations in Mathematical Biology** J.P.E. Hodgson,1983 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 latitutde 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 Immunology and Epidemiology Geoffrey W. Hoffmann,Tomas Hraba,1986 In February 1985 a small international meeting of scientists took place at the recreation resort of the Polish Academy of Sci ences in Mogilany near Cracow Poland The initiative for holding the workshop came from a working meeting on mathematical immunology and related topics at the International Institute for Applied Sys tems Analysis in Laxenburg Austria in November 1983 In addition to representatives of IIASA delegates of the IIASA National Member Organizations NMO of Czechoslovakia Italy and the soviet Union took part in that working meeting The participants came to the conclusion that IIASA could play an important role in facilitating the development of research in this field The first step that they recommended to I IASA was to organize a workshop on mathematical immunology The purpose of the workshop was to review the progress that has been made in applying mathematics to problems in immunology and to explore ways in which further progress might be achieved especially by more efficient interactions between scientists working in mathematical and experimental immunology Some National Member Organizations contributed to the success of the workshop by nominat ing further participants working in

this or related fields For instance thanks to a suggestion of the British NMO the meeting also included analyses of the interactions between the immune state of a population and epidemiological phenomena There were 33 participants at Mogilany from 11 countries namely Canada Czechoslovakia Federal Republic of Germany Hungary Japan Netherlands Poland Sweden united Kingdom USA and USSR **Intrinsic Geometry of Biological Surface Growth** Philip H. Todd,1986-05 1 1 General Introduction The work which comprises this essay formed part of a multidiscip linary project investigating the folding of the developing cerebral cortex in the ferret The project as a whole combined a study at the histological level of the cytoarchitectural development concom itant with folding and a mathematical study of folding viewed from the perspective of differential geometry We here concentrate on the differential geometry of brain folding Histological results which have some significance to the geometry of the cortex are re ferred to but are not discussed in any depth As with any truly multidisciplinary work this essay has objectives which lie in each of its constituent disciplines From a neuroana tomical point of view the work explores the use of the surface geo metry of the developing cortex as a parameter for the underlying growth process Geometrical parameters of particular interest and theoretical importance are surface curvatures Our experimental portion reports the measurement of the surface curvature of the ferret brain during the early stages of folding The use of sur face curvatures and other parameters of differential geometry in the formulation of theoretical models of cortical folding is dis cussed Rhythms in Biology and Other Fields of Application Société mathématique de France,Société mathématique de France. Journées,1983-06 This volume contains most of the talks presented at the Journ es de la Soci t Math ma ique de France entitled Rhythms in Biology and other fields of application Determi nistic and Stochastic Approaches held in Luminy from the 14th th to the 18 of September 1981 The aim of our meeting was to bring together scien tists from different disciplines to discuss a common topic and to stimulate exchanges between participants We hope that this goal was reached This volume is divided into four chapters In each one the papers are arranged in alphabetical order by first author Chapters one and two contain papers devoted to descrip tion or modelling of rhythmic biolog ical phenomena Chapters three and four deal with models for the study of rhythms invol ving the use of deterministic or stochastic tools capable of fruitful transfer to Biology We are pleased that these Proceedings appear in a series which constitutes an interface between Biologists and Mathema ticians We are indebted to all who provided us with their help particularly the Centre International de Rencontres Math matiques C I R M at Luminy the Soci t Mathematique de France S M F the Delegation aux Relations Universitaires Internationales D R U I and the Laboratoire d Informatique et de Math matiques Appliquees de Grenoble I M A G Special thanks are due to Mrs A Litman for her dedi cation and her efficiency throughout the organization of this meeting G enobie Vecembe 1982 *Mathematical Ecology* S.A. Levin,T.G. Hallam,1984-05 **The Mathematical Structure of the Human Sleep-Wake Cycle** Steven H. Strogatz,1986-11 Over the past three years I have grown accustomed to the puzzled look which appears on people s faces when they hear that I am a mathematician who studies sleep They wonder but are usually

too polite to ask what does mathematics have to do with sleep Instead they ask the questions that fascinate us all Why do we have to sleep How much sleep do we really need Why do we dream These questions usually spark a lively discussion leading to the exchange of anecdotes last night s dreams and other personal information But they are questions about the func tion of sleep and interesting as they are I shall have little more to say about them here The questions that have concerned me deal instead with the timing of sleep For those of us on a regular schedule questions of timing may seem vacuous We go to bed at night and get up in the morning going through a cycle of sleeping and waking every 24 hours Yet to a large extent the cycle is imposed by the world around us **Stem Cell Proliferation and Differentiation** Catherine A. Macken,Alan S. Perelson,1988-10-12 The book develops a model for stem cell proliferation and differentiation It is a substantial generalization of the famous Till and McCulloch model It describes the growth of stem cells in culture and the formation of both progenitor cells and end cells The book contains a biologically realistic application of branching processes and should be of interest to mathematics students and teachers of stochastic process courses

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