

Mathematics and the life sciences: Selected lectures (Lecture notes in biomathematics)

Matthews, David E. (Ed.)

Mathematics And The Life Sciences Selected Lectures

Lecture Notes In Biomathematics

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Mathematics And The Life Sciences Selected Lectures Lecture Notes In Biomathematics:

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

Catalog of Copyright Entries. Third Series Library of Congress. Copyright Office, 1979 **Mathematical Demography** D. Smith, Nathan Keyfitz, 2012-12-06 This volume is an effort to bring together important contributions to the mathe matical development of demography and to suggest briefly their historical context We have tried to find who first thought of the several concepts and devices commonly used by demographers what sort of problem he was facing to which the device or concept seemed the solution and how his invention developed subsequently in the hands of others Historically the book starts with a Roman table of life expectancies from the third century a d about which we know little and with John Graunt s explora tions in an area that was still popularly suspect when he wrote in 1662 These are followed by the astronomer Halley who looked into the field long enough to invent the life table and to notice that Their Majesties would take a sizeable loss on the annuity scheme they had just launched and by Euler who was first to devise the formulas of stable population theory and to apply them to filling gaps in data To these we add the handful of further contributions in the 19th century and many pieces from the explosion of contributions that began in this century with Lotka We doubt that we have managed to trace everything back to its ultimate beginning and suspect that our nominees in some cases have been anticipated by predecessors who will be turned up by other students **Ecological Genetics** P. F. Brussard, 2012-12-06 Traditionally studies in ecological genetics have involved both field observations and laboratory genetic analyses Comparisons and cor relations between these two kinds of data have provided valuable in formation on the genetic strategies behind the evolutionary adapta tions of species and their component local populations Indeed much of our current understanding of the dynamics of evolutionary pro cesses has come fro syntheses of ecological and genetic information Since

the recent discovery of abundant markers in the form of protein polymorphisms scientific interest in the connections between genetics and ecology has quickened considerably This volume contains the proceedings of the Society for the Study of Evolution s symposium Genetics and Ecology The Interface held at Ithaca College Ithaca New York June 12 15 1977 This particular topic was selected because of a general feeling that a significant integration of genetics and ecology has developed in the last decade or so Host ecologists no longer believe that each species has a characteristic and constant birth death and development rate habitat preference and so on but that these parameters vary among populations and are at least partially under genetic control and subject to natural selection Similarly few population geneticists still view any species as infinitely large panmictic constant in numbers and distributed evenly throughout its range

Monographic Series Library of Congress, **Revue Roumaine de Mathématiques Pures Et Appliquées**, 1982 Kybernetika, 1978 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

Books and Pamphlets, Including Serials and Contributions to Periodicals Library of Congress. Copyright Office, 1977-07 **Mathematical Aspects of Reacting and Diffusing Systems** P. C. Fife, 2013-03-08 Modeling and analyzing the dynamics of chemical mixtures by means of differential equations is one of the prime concerns of chemical engineering theorists These equations often take the form of systems of nonlinear parabolic partial differential equations or reaction diffusion equations when there is diffusion of chemical substances involved A good overview of this endeavor can be had by reading the two volumes by R Aris 1975 who himself was one of the main contributors to the theory Enthusiasm for the models developed has been shared by parts of the mathematical community and these models have in fact provided motivation for some beautiful mathematical results There are analogies between chemical reactors and certain

biological systems One such analogy is rather obvious a single living organism is a dynamic structure built of molecules and ions many of which react and diffuse Other analogies are less obvious for example the electric potential of a membrane can diffuse like a chemical and of course can interact with real chemical species ions which are transported through the membrane These facts gave rise to Hodgkin s and Huxley s celebrated model for the propagation of nerve signals On the level of populations individuals interact and move about and so it is not surprising that here again the simplest continuous space time interaction migration models have the same g eral appearance as those for diffusing and reacting chemical systems

Current Catalog National Library of Medicine (U.S.),1985 First multi year cumulation covers six years 1965 70

Library of Congress Catalogs Library of Congress,1980 **Synergetics** Hermann Haken,2013-11-11 Over the past years the field of synergetics has been mushrooming An ever increasing number of scientific papers are published on the subject and numerous conferences all over the world are devoted to it Depending on the particular aspects of synergetics being treated these conferences can have such varied titles as Nonequilibrium Nonlinear Statistical Physics Self Organization Chaos and Order and others Many professors and students have expressed the view that the present book provides a good introduction to this new field This is also reflected by the fact that it has been translated into Russian Japanese Chinese German and other languages and that the second edition has also sold out I am taking the third edition as an opportunity to cover some important recent developments and to make the book still more readable First I have largely revised the section on self organization in continuously extended media and entirely rewritten the section on the Benard instability Sec ond because the methods of synergetics are penetrating such fields as eco nomics I have included an economic model on the transition from full employ ment to underemployment in which I use the concept of nonequilibrium phase transitions developed elsewhere in the book Third because a great many papers are currently devoted to the fascinating problem of chaotic motion I have added a section on discrete maps These maps are widely used in such problems and can reveal period doubling bifurcations intermittency and chaos *National Library of Medicine Current Catalog* National Library of Medicine (U.S.), **Revue Roumaine de Mathématiques Pures Et Appliquées** ,1982 **Cellular Automaton Modeling of Biological Pattern Formation** Andreas Deutsch,Sabine Dormann,2007-12-26 This book focuses on a challenging application field of cellular automata pattern formation in biological systems such as the growth of microorganisms dynamics of cellular tissue and tumors and formation of pigment cell patterns These phenomena resulting from complex cellular interactions cannot be deduced solely from experimental analysis but can be more easily examined using mathematical models in particular cellular automaton models While there are various books treating cellular automaton modeling this interdisciplinary work is the first one covering biological applications The book is aimed at researchers practitioners and students in applied mathematics mathematical biology computational physics bioengineering and computer science interested in a cellular automaton approach to biological modeling 〓〓〓〓〓〓〓〓〓〓〓〓〓〓〓〓〓〓〓〓 〓〓〓〓〓〓 (Japan),1997

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Catalog of Copyright Entries, Third Series Library of Congress. Copyright Office, 1977 Includes index *Inference for Diffusion Processes* Christiane Fuchs, 2013-01-18 Diffusion processes are a promising instrument for realistically modelling the time continuous evolution of phenomena not only in the natural sciences but also in finance and economics Their mathematical theory however is challenging and hence diffusion modelling is often carried out incorrectly and the according statistical inference is considered almost exclusively by theoreticians This book explains both topics in an illustrative way which also addresses practitioners It provides a complete overview of the current state of research and presents important novel insights The theory is demonstrated using real data applications *Evolutionary Ecology* British Ecological Society. Symposium, 1984

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