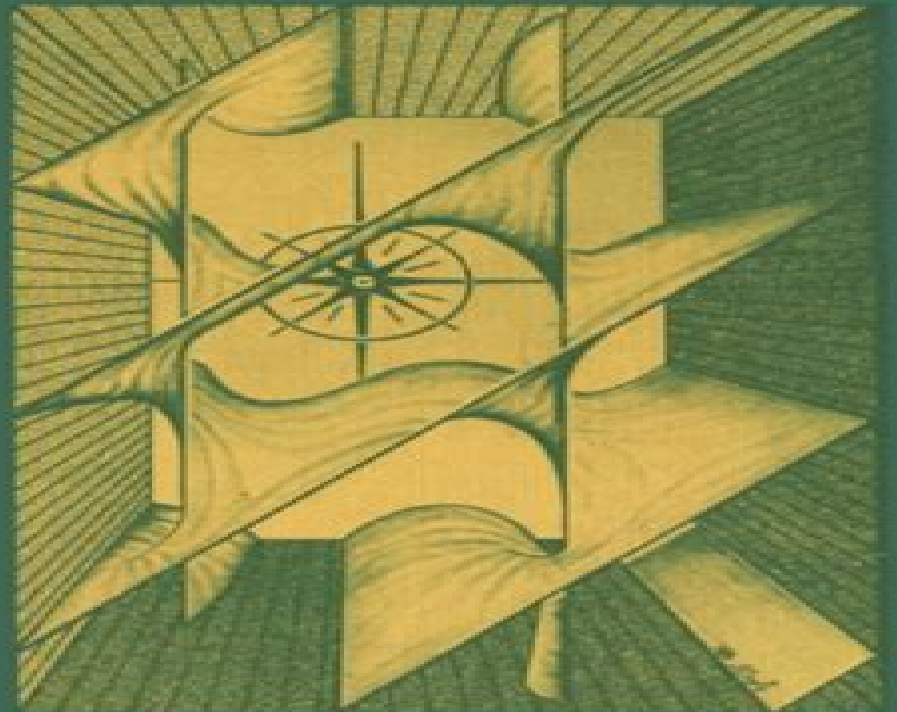


**Biomathematics
Volume 8**

**Arthur T. Winfree
The Geometry
of Biological
Time**



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The Geometry Of Biological Time Biomathematics V 8

Rubin Wang, Fanji Gu



The Geometry Of Biological Time Biomathematics V 8:

The Geometry of Biological Time Arthur T. Winfree, 2013-06-29 As I review these pages the last of them written in Summer 1978 some retrospective thoughts come to mind which put the whole business into better perspective for me and might aid the prospective reader in choosing how to approach this volume The most conspicuous thought in my mind at present is the diversity of wholly independent explorations that came upon phase singularities in one guise or another during the past decade My efforts to gather the published literature during the last phases of actually writing a whole book about them were almost equally divided between libraries of Biology Chemistry Engineering Mathematics Medicine and Physics A lot of what I call gathering was done somewhat in anticipation in the form of conjecture query and prediction based on analogy between developments in different fields The consequence throughout 1979 was that our long suffering publisher repeatedly had to replace such material by citation of unexpected flurries of papers giving substantive demonstration I trust that the authors of these many excellent reports and especially of those I only found too late will forgive the brevity of allusion I felt compelled to observe in these substitutions A residue of loose ends is largely collected in the index under QUERIES It is clear to me already that the materials I began to gather several years ago represented only the first flickering of what turns out to be a substantial conflagration Perspectives of Nonlinear Dynamics: Volume 2 E. Atlee Jackson, 1989

The dynamics of physical chemical biological or fluid systems generally must be described by nonlinear models whose detailed mathematical solutions are not obtainable To understand some aspects of such dynamics various complementary methods and viewpoints are of crucial importance The presentation and style is intended to stimulate the reader's imagination to apply these methods to a host of problems and situations **Thermodynamic Network Analysis of**

Biological Systems J. Schnakenberg, 2012-12-06 The first edition of this book was greeted with broad interest from readers engaged in various disciplines of biophysics I received many stimulating and encouraging responses however some of the book's reviewers wanted to stress the fact that an extensive literature of network theory was not included or reported in the book But the main aspect of the book is intended to be substantive rather than methodical networks simply serve as a remedy for doing some first steps in analysing and modelling complex biological systems For an advanced stage in the investigation of a particular system it may be appropriate to replace the phenomenological network method by more detailed techniques like statistical equations or computer simulations According to this intention the second edition of the book has been enlarged by further biological examples for network analysis not by more network theory There is a completely new section on a network model for photoreception For this section I am obliged to J Tiedge who did most of the detailed calculation and to my colleague Professor Stieve with whom we have had a very fruitful cooperation Also I would like to mention that this work has been sponsored by the Deutsche Forschungsgemeinschaft in the Sonderforschungsbereich 160 Recent results for excitable systems represented by feedback networks have also been included in the second edition especially for limit cycle

networks **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 chose 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 **Current Catalog** National Library of Medicine (U.S.), 1980 First multi year cumulation covers six years 1965-70 **Perspectives of Nonlinear Dynamics: Volume 1** E. Atlee Jackson, 1989 The dynamics of physical chemical biological or fluid systems generally must be described by nonlinear models whose detailed mathematical solutions are not obtainable To understand some aspects of such dynamics various complementary methods and viewpoints are of crucial importance In this book the perspectives generated by analytical topological and computational methods and interplays between them are developed in a variety of contexts This book is a comprehensive introduction to this field suited to a broad readership and reflecting a wide range of applications Some of the concepts considered are topological equivalence embeddings dimensions and fractals Poincaré maps and map dynamics empirical computational sciences vis vis mathematics Ulam's synergetics Turing's instability and dissipative structures chaos dynamic entropies Lorenz and Rossler models predator-prey and replicator models FPU and KAM phenomena solitons and nonsolitons coupled maps and pattern dynamics cellular automata **Crystals and Life** Celerino Abad Zapatero, 2002 **Methods in Neuronal Modeling** Christof Koch, Idan Segev, 1998 Kinetic Models of Synaptic Transmission Alain Destexhe Zachary F Mainen Terrence J Sejnowski Cable Theory for Dendritic Neurons Wilfrid Rall Hagai Agmon Snir Compartmental Models of Complex Neurons Idan Segev Robert E Burke Multiple Channels and Calcium Dynamics Walter M Yamada Christof Koch Paul R Adams Modeling Active Dendritic Processes in Pyramidal Neurons Zachary F Mainen Terrence J Sejnowski Calcium Dynamics in Large Neuronal Models Erik De Schutter Paul Smolen Analysis of Neural Excitability and Oscillations John Rinzel Bard Ermentrout Design and Fabrication of Analog VLSI Neurons Rodney Douglas Misha Mahowald Principles of Spike Train Analysis Fabrizio Gabbiani Christof Koch Modeling Small Networks Larry Abbott Eve Marder Spatial and Temporal Processing in Central Auditory Networks Shihab Shamma Simulating Large Networks of Neurons Alexander D Protopapas Michael Vanier James M Bower **Advances in Cognitive Neurodynamics (II)** Rubin Wang, Fanji Gu, 2011-01-06 Within our knowledge the series of the International Conference on Cognitive Neurodynamics ICCN is the only conference series

dedicating to cognitive neurodynamics This volume is the proceedings of the 2nd International Conference on Cognitive Neurodynamics held in 2009 which reviews the progress in this field since the 1st ICCN 2007 The topics include Neural coding and realistic neural network dynamics Neural population dynamics Firing Oscillations and Patterns in Neuronal Networks Brain imaging EEG MEG Sensory and Motor Dynamics Global cognitive function Multi scalar Neurodynamics from Physiology to Systems Theory Neural computing Emerging Technologies for Brain Computer Interfaces Neural dynamics of brain disorders

Functional Morphology of Neuroendocrine Systems Berta Scharrer, Horst-Werner Korf, Hans-Georg Hartwig, 2012-12-06 International Symposium Held at the Department of Anatomy and Cytology Justus Liebig University in Gießen July 30 August 1 1986

A Systems Theoretic Approach to Systems and Synthetic Biology II: Analysis and Design of Cellular Systems Vishwesh V. Kulkarni, Guy-Bart Stan, Karthik Raman, 2014-07-03

The complexity of biological systems has intrigued scientists from many disciplines and has given birth to the highly influential field of systems biology wherein a wide array of mathematical techniques such as flux balance analysis and technology platforms such as next generation sequencing is used to understand elucidate and predict the functions of complex biological systems More recently the field of synthetic biology i.e. de novo engineering of biological systems has emerged Scientists from various fields are focusing on how to render this engineering process more predictable reliable scalable affordable and easy Systems and control theory is a branch of engineering and applied sciences that rigorously deals with the complexities and uncertainties of interconnected systems with the objective of characterising fundamental systemic properties such as stability robustness communication capacity and other performance metrics Systems and control theory also strives to offer concepts and methods that facilitate the design of systems with rigorous guarantees on these properties Over the last 100 years it has made stellar theoretical and technological contributions in diverse fields such as aerospace telecommunication storage automotive power systems and others Can it have or evolve to have a similar impact in biology The chapters in this book demonstrate that indeed systems and control theoretic concepts and techniques can have a significant impact in systems and synthetic biology Volume II contains chapters contributed by leading researchers in the field of systems and synthetic biology that concern modeling physiological processes and bottom up constructions of scalable biological systems The modeling problems include characterisation and synthesis of memory understanding how homeostasis is maintained in the face of shocks and relatively gradual perturbations understanding the functioning and robustness of biological clocks such as those at the core of circadian rhythms and understanding how the cell cycles can be regulated among others Some of the bottom up construction problems investigated in Volume II are as follows How should biomacromolecules platforms and scalable architectures be chosen and synthesised in order to build programmable de novo biological systems What are the types of constrained optimisation problems encountered in this process and how can these be solved efficiently As the eminent computer scientist Donald Knuth put it biology easily has 500 years of exciting problems to work on This edited book presents but a small

fraction of those for the benefit of 1 systems and control theorists interested in molecular and cellular biology and 2 biologists interested in rigorous modelling analysis and control of biological systems **Advances in Marine Biology**, 1990-09-24 Volume 26 of this important series will be of particular interest to fish biologists Haug's review of Atlantic halibut presents a complete summary of this important species both as a subject of a pelagic fishery and a developing aquaculture industry Kjorsvik and his colleagues focus on the importance of egg quality for the mass production of fish fry They point to a number of characters that may be indicative of egg quality and which may help to assess their likelihood of producing good fry Neilson and Perry review the studies of diel movements in fish and conclude that they are often facultative in nature The implications for fish sampling are discussed Finally Burd and Nemec examine the development of practical approaches towards the methods of analyzing benthic infauna pointing out the assumptions and limitations of each

The Symmetry Perspective Martin Golubitsky, Ian Stewart, 2012-12-06 The framework of symmetry provides an important route between the abstract theory and experimental observations The book applies symmetry methods to dynamical systems focusing on bifurcation and chaos theory Its exposition is organized around a wide variety of relevant applications From the reviews The rich collection of examples makes the book extremely useful for motivation and for spreading the ideas to a large Community MATHEMATICAL REVIEWS **Biomathematics and Related Computational Problems** L.M. Ricciardi, 2012-12-06 Biomathematics emerged and rapidly grew as an independent discipline in the late sixties as scientists with various backgrounds in the mathematical biological and physical sciences gathered together to form Departments and Institutes centered around this discipline that many at that time felt should fall between the cracks of legitimate science For various reasons some of these new institutions vanished in the mid seventies particularly in the U S the main reason for their demise being economic Nevertheless good biomathematical so that the range research has been ceaselessly carried on by numerous workers worldwide of this activity appears now as truly impressive from useful and effective mathematical statements about problems that are firmly rooted in the wet reality of biology to deep theoretical investigations on outstanding basic questions It is also interesting to take note that some ideas and theories set forth by paleo biomathematicians almost a quarter of century ago are now becoming highly appreciated also by scientists engaged in quite different research fields For instance neural nets is the hot topic in computer science these days Well aware of the growing interest in this relatively new field years back I organized a small workshop on Biomathematics Current Status and Future Perspectives which was held at the University of Salerno during the middle of April 1980 Rhythmic Oscillations in Proteins to Human Cognition Anirban Bandyopadhyay, Kanad Ray, 2020-10-29 This book explores various aspects of biophysics from neurobiology to quantum biology and the consciousness of human beings and in the universe It examines eight different areas of natural intelligence ranging from time crystals found in chemical biology to the vibrations and the resonance of proteins and also discusses hierarchical communication in various biological systems Written by senior and

experts in the field in language that is lucid and easy to understand it is a valuable reference resource for researchers and practitioners in academia and industry

Asymptotic Analysis II F. Verhulst, 2006-11-15

Mathematical Biology James D. Murray, 2013-06-29 Mathematics has always benefited from its involvement with developing sciences Each successive interaction revitalises and enhances the field Biomedical science is clearly the premier science of the foreseeable future For the continuing health of their subject mathematicians must become involved with biology With the example of how mathematics has benefited from and influenced physics it is clear that if mathematicians do not become involved in the biosciences they will simply not be a part of what are likely to be the most important and exciting scientific discoveries of all time Mathematical biology is a fast growing well recognised albeit not clearly defined subject and is to my mind the most exciting modern application of mathematics The increasing use of mathematics in biology is inevitable as biology becomes more quantitative The complexity of the biological sciences makes interdisciplinary involvement essential For the mathematician biology opens up new and exciting branches while for the biologist mathematical modelling offers another research tool commensurate with a new powerful laboratory technique but only if used appropriately and its limitations recognised However the use of esoteric mathematics arrogantly applied to biological problems by mathematicians who know little about the real biology together with unsubstantiated claims as to how important such theories are does little to promote the interdisciplinary involvement which is so essential Mathematical biology research to be useful and interesting must be relevant biologically

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

Refrigeration science and technology, 1986

Bifurcation Theory, Mechanics and Physics C.P. Bruter, A. Aragnol, A. Lichnorowicz, 2001-11-30 This volume presents the proceedings of a

colloquium inspired by the former President of the French Mathematical Society Michel Herve. The aim was to promote the development of mathematics through applications. Since the ancient supports the new it seemed appropriate to center the theoretical conferences on new subjects. Since the world is movement and creation the theoretical conferences were planned on mechanics, movement and bifurcation theory, creation. Five aspects of mechanics were to be presented but unfortunately it has not been possible to include the statistical mechanics aspect. So that only four aspects are presented: Classical mechanics, Hamiltonian, Lagrangian, Poisson. W. N. Tulczyjew, J. E. Lhite, C. M. Marle. Quantum mechanics, in particular the passage from the classical to the quantum approach and the problem of finding the explicit solution of Schrodinger's equation. M. Cahen and S. Gutt, J. Leray. Fluid mechanics, meaning problems involving partial differential equations. One of the speakers we hoped would attend the conference was in Japan at the time however his lecture is presented in these proceedings. J. F. Pommaret, H. I. Shi. Mathematical information theory. S. Guis. Traditional physical arguments are characterized by their great homogeneity and mathematically expressed by the compactness property. In such cases there is a kind of duality between locality and globality which allows the use of the infinitesimal in global considerations.

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