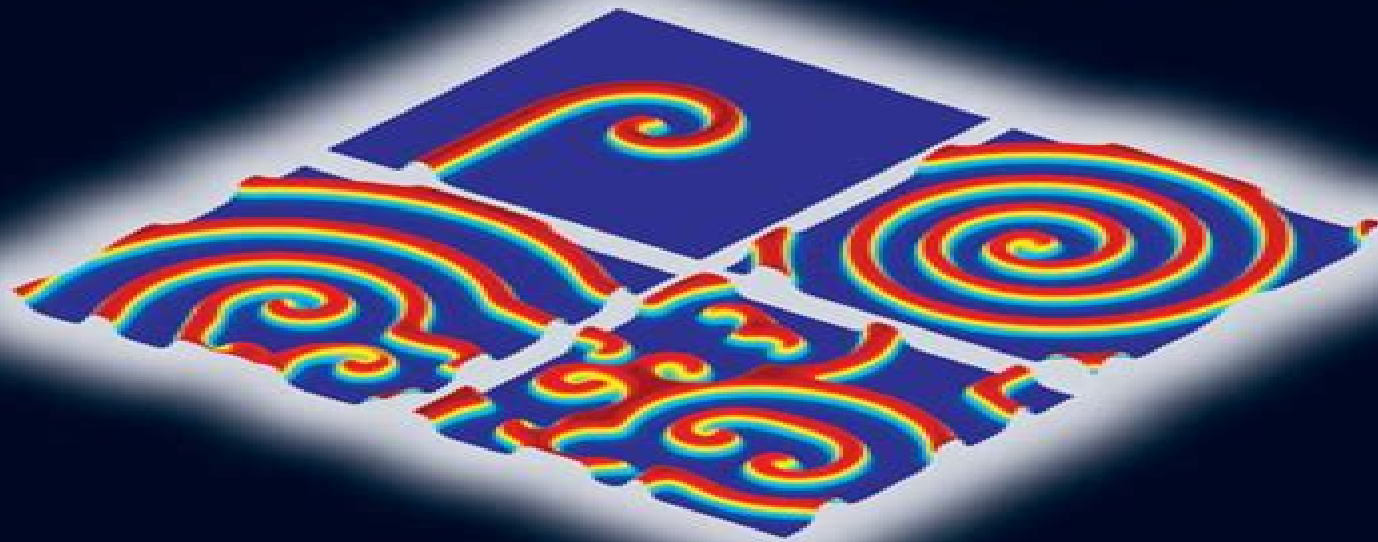


PATTERNS IN EXCITABLE MEDIA

Genesis, Dynamics,
and Control



Sitabhra Sinha
S. Sridhar



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A CHAPMAN & HALL BOOK

Patterns In Excitable Media Genesis Dynamics And Control

M.C.K. Khoo



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Patterns in Excitable Media Sitabhra Sinha,S. Sridhar,2014-12-13 Excitable media comprise a class of models for a wide range of physical chemical and biological systems that exhibit spontaneous formation of spatial patterns Patterns in Excitable Media Genesis Dynamics and Control explores several aspects of the dynamics of such patterns in particular their evolution upon interaction with structural and functional heterogeneities in the system The book provides readers with an introduction to recent developments in the interdisciplinary field of dynamics and control of patterns in nonlinear biological systems described by excitable media models It also discusses low amplitude control schemes for eliminating such patterns from an excitable medium which has direct clinical relevance in view of the close connection to life threatening cardiac arrhythmia

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Cells in Evolutionary Biology Brian K. Hall,Sally A. Moody,2018-06-12 This book is the first in a projected series on Evolutionary Cell Biology the intent of which is to demonstrate the essential role of cellular mechanisms in transforming the genotype into the phenotype by transforming gene activity into evolutionary change in morphology This book Cells in Evolutionary Biology evaluates the evolution of cells themselves and the role cells have been viewed to play as agents of change at other levels of biological organization Chapters explore Darwin s use of cells in his theory of evolution and how Weismann s theory of the separation of germ plasm from body cells brought cells to center stage in understanding how acquired changes to cells within generations are not passed on to future generations Chapter 7 of this book is freely available as a downloadable Open Access PDF at <http://www.taylorfrancis.com> under a Creative Commons Attribution Non Commercial No Derivatives CC BY NC ND 4.0 license

The Story of Econophysics Kishore Chandra Dash,2019-08-22 This book will appeal to the lay reader with an interest in the history of what is today termed Econophysics looking at various works throughout the ages that have led to the emergence of this field It begins with a discussion of the philosophers and scientists who have contributed to this discipline before moving on to considering the contributions of different institutions books journals and conferences in nurturing the subject

Message Passing Cellular Automata Severino Fernández Galán,2020-08-31 Cellular automata have been used in computer science since the 1940s A cellular automaton consists of many identical simple processing units that interact with each other in a local way and in discrete time Cellular automata have been applied to a wide variety of tasks and due to the

growing interest of the scientific community a good number of relevant journals and conferences are dedicated to their study and development One of the main characteristics of cellular automata is their simplicity which makes them relatively easy to program Nonetheless despite their simplicity cellular automata are able to generate complex results in many domains even in the context of artificial life Another remarkable characteristic of cellular automata is that they are suitable for parallel implementation The present book deals with the fundamentals of cellular automata Additionally a new approach to extending cellular automata with the use of message passing is introduced Each of the seven chapters of this book includes a number of figures bibliographic references and exercises of interest to the reader The book offers students practitioners and researchers a concise but broad coverage of the main aspects of cellular automata The author of the book is an associate professor in the Department of Artificial Intelligence at UNED Spanish Open University Since the middle 1990s he has performed teaching and research activities within the field of artificial intelligence mainly in the areas of Bayesian networks and evolutionary computation This book is the result of a long journey that started when the author became interested in NetLogo NetLogo is an agent based programming environment well suited for modeling and inspecting complex systems developing over time

Multilevel Organization and Functional Integration in Organisms Etienne Roux,Marko Marhl,Matteo Mossio,2021-03-09

Genetic Regulatory Mechanisms Underlying Developmental Shifts in Plant Evolution

Verónica S. Di Stilio,Annette Becker,Natalia Pabón-Mora,2019-10-09

Complex Nonlinearity Vladimir G.

Ivancevic,Tijana T. Ivancevic,2008-05-31 Complex Nonlinearity Chaos Phase Transitions Topology Change and Path Integrals is a book about prediction control of general nonlinear and chaotic dynamics of high dimensional complex systems of various physical and non physical nature and their underpinning geometro topological change The book starts with a textbook like expose on nonlinear dynamics attractors and chaos both temporal and spatio temporal including modern techniques of chaos control Chapter 2 turns to the edge of chaos in the form of phase transitions equilibrium and non equilibrium oscillatory fractal and noise induced as well as the related field of synergetics While the natural stage for linear dynamics comprises of flat Euclidean geometry with the corresponding calculation tools from linear algebra and analysis the natural stage for nonlinear dynamics is curved Riemannian geometry with the corresponding tools from nonlinear tensor algebra and analysis The extreme nonlinearity chaos corresponds to the topology change of this curved geometrical stage usually called configuration manifold Chapter 3 elaborates on geometry and topology change in relation with complex nonlinearity and chaos Chapter 4 develops general nonlinear dynamics continuous and discrete deterministic and stochastic in the unique form of path integrals and their action amplitude formalism This most natural framework for representing both phase transitions and topology change starts with Feynman s sum over histories to be quickly generalized into the sum over geometries and topologies The last Chapter puts all the previously developed techniques together and presents the unified form of complex nonlinearity Here we have chaos phase transitions geometrical dynamics and topology change all working

together in the form of path integrals The objective of this book is to provide a serious reader with a serious scientific tool that will enable them to actually perform a competitive research in modern complex nonlinearity It includes a comprehensive bibliography on the subject and a detailed index Target readership includes all researchers and students of complex nonlinear systems in physics mathematics engineering chemistry biology psychology sociology economics medicine etc working both in industry clinics and academia

Simulating Normal and Arrhythmic Dynamics: From Sub-Cellular to Tissue and Organ Level Hans Dierckx, Flavio H. Fenton, Simonetta Filippi, Alain Pumir, S. Sridhar, 2019-10-04 Some Physicochemical and Mathematical Tools for Understanding of Living Systems Hubert Greppin, Marc Bonzon, Robert Degli Agosti, 1993

Encyclopedia of Nonlinear Science Alwyn Scott, 2006-05-17 In 438 alphabetically arranged essays this work provides a useful overview of the core mathematical background for nonlinear science as well as its applications to key problems in ecology and biological systems chemical reaction diffusion problems geophysics economics electrical and mechanical oscillations in engineering systems lasers and nonlinear optics fluid mechanics and turbulence and condensed matter physics among others

Physics Briefs, 1993 **Out-of-Equilibrium (Supra)molecular Systems and Materials** Nicolas Giuseppone, Andreas Walther, 2021-04-22 Out of Equilibrium Supra molecular Systems and Materials A must have resource that covers everything from out of equilibrium chemical systems to active materials Out of Equilibrium Supra molecular Systems and Materials presents a comprehensive overview of the synthetic approaches that use molecular and supramolecular bonds in various out of equilibrium situations With contributions from noted experts on the topic the text contains information on the design of dissipative chemical systems that adapt their structures in space and time when fueled by an external source of energy The contributors also examine molecules nanoscale objects and materials that can produce mechanical work based on molecular machines Additionally the book explores living supramolecular polymers that can be trapped in kinetically stable states as well as out of equilibrium chemical networks and oscillators that are important to understand the emergence of complex behaviors and in particular the origin of life This important book Offers comprehensive coverage of fields from design of out of equilibrium self assemblies to molecular machines and active materials Presents information on a highly emerging and interdisciplinary topic Includes contributions from internationally renowned scientists Written for chemists physical chemists biochemists material scientists Out of Equilibrium Supra molecular Systems and Materials is an indispensable resource written by top scientists in the field

Cumulated Index Medicus, 1977 **Epilepsy** Jerome Engel, Timothy A. Pedley, Jean Aicardi, 2008 Written and edited by world renowned authorities this three volume work is to quote a reviewer the definitive textbook about seizures and epilepsy This Second Edition is thoroughly updated and gives you a complete print and multimedia package the three volume set plus access to an integrated content Website More than 300 chapters cover the spectrum of biology physiology and clinical information from molecular biology to public health concerns in developing countries Included are detailed discussions of seizure types and

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Morphological Plant Modeling: Unleashing Geometric and Topological Potential within the Plant Sciences Alexander Bucksch, Dan Chitwood, 2017-10-13 An increasing population faces the growing demand for agricultural products and accurate global climate models that account for individual plant morphologies to predict favorable human habitat Both demands are rooted in an improved understanding of the mechanistic origins of plant development Such understanding requires geometric and topological descriptors to characterize the phenotype of plants and its link to genotypes However the current plant phenotyping framework relies on simple length and diameter measurements which fail to capture the exquisite architecture of plants The Research Topic Morphological Plant Modeling Unleashing Geometric and Topological Potential within the Plant Sciences is the result of a workshop held at National Institute for Mathematical and Biological Synthesis NIMBioS in Knoxville Tennessee From 2 4 September 2015 over 40 scientists from mathematics computer science engineering physics and biology came together to set new frontiers in combining plant phenotyping with recent results from shape theory at the interface of geometry and topology In doing so the Research Topic synthesizes the views from multiple disciplines to reveal the potential of new mathematical concepts to analyze and quantify the relationship between morphological plant features As such the Research Topic bundles examples of new mathematical techniques including persistent homology graph theory and shape statistics to tackle questions in crop breeding developmental biology and vegetation modeling The challenge to model plant morphology under field conditions is a central theme of the included papers to address the problems of climate change and food security that require the integration of plant biology and mathematics from geometry and topology research applied to imaging and simulation techniques The introductory white paper written by the workshop participants identifies future directions in research education and policy making to integrate biological and mathematical approaches and to strengthen research at the interface of both disciplines

Biosciences, 1998 **Visions Of Nonlinear Science In The 21st Century** Wai-kai Chen, Jose L Huertas, Rabinder N Madan, 1999-07-03 Authoritative and visionary this festschrift features 12 highly readable expositions of virtually all currently active aspects of nonlinear science It has been painstakingly researched and written by leading scientists and eminent expositors including L Shilnikov R Seydel I Prigogine W Porod C Mira M Lakshmanan W Lauterborn A Holden H Haken C Grebogi E Doedel and L Chua each chapter addresses a current and intensively researched area of nonlinear science and chaos including nonlinear dynamics mathematics numerics and technology Handsomely produced with

high resolution color graphics for enhanced readability this book has been carefully written at a high level of exposition and is somewhat self contained Each chapter includes a tutorial and background information as well as a survey of each area s main results and state of the art Of special interest to both beginners and seasoned researchers is the identification of future trends and challenging yet tractable problems that are likely to be solved before the end of the 21st century The visionary and provocative nature of this book makes it a valuable and lasting reference

Dissertation Abstracts International
,1993-06 **Bioengineering Approaches to Pulmonary Physiology and Medicine** M.C.K. Khoo,2007-08-20 As the current millennium steams towards a close one cannot help but look with amazement at the incredible amount of progress that has been achieved in medicine in just the last few decades A key contributing factor to this success has been the importation and blending of ideas and techniques from disciplines outside the traditional borders of medical science In recent years the most well known example is the cross pollination between molecular biology and medicine Advances driven by this potent combination have spawned the vision of a future where cures based on gene therapy become commonplace Yet as we continue our search for magic bullets in the quest to eradicate disease it important to recognize the value of other less heralded interdisciplinary efforts that have laid a large part of the foundation of present day medicine In pulmonary medicine the contribution from the bioengineers a diverse collection of individuals cross bred to various degrees in mathematical modeling and experimental physiology has been larger and more sustained than in many other medical specialties It is easy to point to the vast array of ventilators blood gas analyzers oximeters pulmonary function devices and respiration monitors that are present in any modern clinical setting as solid evidence of the successful synergy between engineering science and pulmonary medicine However one must not forget the less tangible but perhaps more important contributions that have been derived from mathematical modeling and computer simulation without which many of these modern instruments would not have come into existence

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