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Dynamics of Nonlinear Time-Delay Systems Muthusamy Lakshmanan, Dharmapuri Vijayan Senthilkumar, 2011-01-04

Synchronization of chaotic systems a patently nonlinear phenomenon has emerged as a highly active interdisciplinary research topic at the interface of physics biology applied mathematics and engineering sciences In this connection time delay systems described by delay differential equations have developed as particularly suitable tools for modeling specific dynamical systems Indeed time delay is ubiquitous in many physical systems for example due to finite switching speeds of amplifiers in electronic circuits finite lengths of vehicles in traffic flows finite signal propagation times in biological networks and circuits and quite generally whenever memory effects are relevant This monograph presents the basics of chaotic time delay systems and their synchronization with an emphasis on the effects of time delay feedback which give rise to new collective dynamics Special attention is devoted to scalar chaotic hyperchaotic time delay systems and some higher order models occurring in different branches of science and technology as well as to the synchronization of their coupled versions Last but not least the presentation as a whole strives for a balance between the necessary mathematical description of the basics and the detailed presentation of real world applications

Complex Time-Delay Systems Fatihcan M.

Atay, 2010-03-24 One of the major contemporary challenges in both physical and social sciences is modeling analyzing and understanding the self organization evolution behavior and eventual decay of complex dynamical systems ranging from cell assemblies to the human brain to animal societies The multi faceted problems in this domain require a wide range of methods from various scientific disciplines There is no question that the inclusion of time delays in complex system models considerably enriches the challenges presented by the problems Although this inclusion often becomes inevitable as real world applications demand more and more realistic models the role of time delays in the context of complex systems so far has not attracted the interest it deserves The present volume is an attempt toward filling this gap There exist various useful tools for the study of complex time delay systems At the forefront is the mathematical theory of delay equations a relatively mature field in many aspects which provides some powerful techniques for analytical inquiries along with some other tools from statistical physics graph theory computer science dynamical systems theory probability theory simulation and optimization software and so on Nevertheless the use of these methods requires a certain synergy to address complex systems problems especially in the presence of time delays

Complexity and Synergetics Stefan C. Müller, Peter J. Plath, Günter

Radons, Armin Fuchs, 2017-11-16 All of us are confronted with complex phenomena occurring in daily life and in the living and inanimate nature surrounding us Our scientific curiosity strives to unravel the mechanisms at work to create such complexity Among various approaches to solve this problem the field of synergetics developed by Hermann Haken has proven very successful as a general and interdisciplinary concept for describing and explaining complex phenomena that appear in systems under non equilibrium conditions These comprise dynamical states in evolving systems spatial structure

forming processes synchronization of states and regulatory mechanisms and many other examples The encompassing concepts have been applied to many disciplines like physics chemistry biology and beyond those also from synergetics to information theory brain science economics and others Starting from basic methods of complexity research and synergetics this volume contains thirty contributions on complex systems that exhibit spontaneous pattern formation far from thermal equilibrium Written by international experts and young researchers assembled under one roof this volume reflects state of the art research from a variety of scientific fields and disciplines where complexity theory and synergetics are important or even indispensable tools today and in the future

Electronic Modelling of Deterministic and Stochastic Oscillators

Vladimir Semenov, 2025-01-28 This book presents advanced methods for the electronic modeling of dynamical systems governed by ordinary differential equations It offers a comprehensive toolkit and practical solutions for specialists in nonlinear dynamics who seek experimental validation of their mathematical models The aim is to empower readers without an extensive background in electronics or circuit theory to translate their theoretical concepts into real world devices facilitating the rapid experimental confirmation of numerical and theoretical findings For experts in electronic engineering the book showcases how a wide range of non electronic systems and their unique characteristics can be effectively modeled using electronic circuits Bridging the gap between theory and practice the book serves as a valuable resource on electronics for theorists and mathematicians and on nonlinear dynamics for experimentalists and engineers Its audience includes a broad spectrum of readers from students and engineers to scientists and researchers across various fields

Nonlinear Resonances Shanmuganathan Rajasekar, Miguel A. F. Sanjuan, 2015-11-30 This introductory text presents the basic aspects and most important features of various types of resonances and anti resonances in dynamical systems In particular for each resonance it covers the theoretical concepts illustrates them with case studies and reviews the available information on mechanisms characterization numerical simulations experimental realizations possible quantum analogues applications and significant advances made over the years Resonances are one of the most fundamental phenomena exhibited by nonlinear systems and refer to specific realizations of maximum response of a system due to the ability of that system to store and transfer energy received from an external forcing source Resonances are of particular importance in physical engineering and biological systems they can prove to be advantageous in many applications while leading to instability and even disasters in others The book is self contained providing the details of mathematical derivations and techniques involved in numerical simulations Though primarily intended for graduate students it can also be considered a reference book for any researcher interested in the dynamics of resonant phenomena

A Route to Chaos Using FPGAs Bharathwaj Muthuswamy, Santo

Banerjee, 2015-06-18 The purpose of this introductory book is to couple the teaching of chaotic circuit and systems theory with the use of field programmable gate arrays FPGAs As such it differs from other texts on chaos first it puts emphasis on combining theoretical methods simulation tools and physical realization to help the reader gain an intuitive understanding of

the properties of chaotic systems Second the medium used for physical realization is the FPGA These devices are massively parallel architectures that can be configured to realize a variety of logic functions Hence FPGAs can be configured to emulate systems of differential equations Nevertheless maximizing the capabilities of an FPGA requires the user to understand the underlying hardware and also FPGA design software This is achieved by the third distinctive feature of this book a lab component in each chapter Here readers are asked to experiment with computer simulations and FPGA designs to further their understanding of concepts covered in the book This text is intended for graduate students in science and engineering interested in exploring implementation of nonlinear dynamical chaotic systems on FPGAs **Synergetics of**

Measurement, Prediction and Control Igor Grabec, Wolfgang Sachse, 2012-12-06 In this monograph a statistical description of natural phenomena is used to develop an information processing system capable of modeling non linear relationships between sensory data The system based on self organized optimal preservation of empirical information applies these relationships for prediction and adaptive control This monograph is written for students scientists and engineers in academia and industry who are interested in experimental work related to the adaptive modeling of natural laws the development of sensory neural networks intelligent control synergetics and informatics No specific knowledge of advanced mathematics is presupposed Examples taken from physics engineering medicine and economics demonstrate the applicability of such intelligent systems **Nonlinear Analysis in Neuroscience and Behavioral Research** Tobias A.

Mattei, 2016-10-31 Although nonlinear dynamics have been mastered by physicists and mathematicians for a long time as most physical systems are inherently nonlinear in nature the recent successful application of nonlinear methods to modeling and predicting several evolutionary ecological physiological and biochemical processes has generated great interest and enthusiasm among researchers in computational neuroscience and cognitive psychology Additionally in the last years it has been demonstrated that nonlinear analysis can be successfully used to model not only basic cellular and molecular data but also complex cognitive processes and behavioral interactions The theoretical features of nonlinear systems such unstable periodic orbits period doubling bifurcations and phase space dynamics have already been successfully applied by several research groups to analyze the behavior of a variety of neuronal and cognitive processes Additionally the concept of strange attractors has lead to a new understanding of information processing which considers higher cognitive functions such as language attention memory and decision making as complex systems emerging from the dynamic interaction between parallel streams of information flowing between highly interconnected neuronal clusters organized in a widely distributed circuit and modulated by key central nodes Furthermore the paradigm of self organization derived from the nonlinear dynamics theory has offered an interesting account of the phenomenon of emergence of new complex cognitive structures from random and non deterministic patterns similarly to what has been previously observed in nonlinear studies of fluid dynamics Finally the challenges of coupling massive amount of data related to brain function generated from new research

fields in experimental neuroscience such as magnetoencephalography optogenetics and single cell intra operative recordings of neuronal activity have generated the necessity of new research strategies which incorporate complex pattern analysis as an important feature of their algorithms Up to now nonlinear dynamics has already been successfully employed to model both basic single and multiple neurons activity such as single cell firing patterns neural networks synchronization autonomic activity electroencephalographic measurements and noise modulation in the cerebellum as well as higher cognitive functions and complex psychiatric disorders Similarly previous experimental studies have suggested that several cognitive functions can be successfully modeled with basis on the transient activity of large scale brain networks in the presence of noise Such studies have demonstrated that it is possible to represent typical decision making paradigms of neuroeconomics by dynamic models governed by ordinary differential equations with a finite number of possibilities at the decision points and basic heuristic rules which incorporate variable degrees of uncertainty This e book has include frontline research in computational neuroscience and cognitive psychology involving applications of nonlinear analysis especially regarding the representation and modeling of complex neural and cognitive systems Several experts teams around the world have provided frontline theoretical and experimental contributions as well as reviews perspectives and commentaries in the fields of nonlinear modeling of cognitive systems chaotic dynamics in computational neuroscience fractal analysis of biological brain data nonlinear dynamics in neural networks research nonlinear and fuzzy logics in complex neural systems nonlinear analysis of psychiatric disorders and dynamic modeling of sensorimotor coordination Rather than a comprehensive compilation of the possible topics in neuroscience and cognitive research to which non linear may be used this e book intends to provide some illustrative examples of the broad range of

Physics of the Human Mind Ihor Lubashevsky,2017-02-12 This book tackles the challenging question which mathematical formalisms and possibly new physical notions should be developed for quantitatively describing human cognition and behavior in addition to the ones already developed in the physical and cognitive sciences Indeed physics is widely used in modeling social systems where in particular new branches of science such as sociophysics and econophysics have arisen However many if not most characteristic features of humans like willingness emotions memory future prediction and moral norms to name but a few are not yet properly reflected in the paradigms of physical thought and theory The choice of a relevant formalism for modeling mental phenomena requires the comprehension of the general philosophical questions related to the mind body problem Plausible answers to these questions are investigated and reviewed notions and concepts to be used or to be taken into account are developed and some challenging questions are posed as open problems This text addresses theoretical physicists and neuroscientists modeling any systems and processes where human factors play a crucial role philosophers interested in applying philosophical concepts to the construction of mathematical models and the mathematically oriented psychologists and sociologists whose research is fundamentally related to modeling mental processes

Chaos in Hydrology Bellie Sivakumar,2016-11-16 This

authoritative book presents a comprehensive account of the essential roles of nonlinear dynamic and chaos theories in understanding modeling and forecasting hydrologic systems This is done through a systematic presentation of 1 information on the salient characteristics of hydrologic systems and on the existing theories for their modeling 2 the fundamentals of nonlinear dynamic and chaos theories methods for chaos identification and prediction and associated issues 3 a review of the applications of chaos theory in hydrology and 4 the scope and potential directions for the future This book bridges the divide between the deterministic and the stochastic schools in hydrology and is well suited as a textbook for hydrology courses

Physics of Biological Oscillators Aneta Stefanovska, Peter V. E. McClintock, 2021-05-05 This book based on a selection of invited presentations from a topical workshop focusses on time variable oscillations and their interactions The problem is challenging because the origin of the time variability is usually unknown In mathematical terms the oscillations are non autonomous reflecting the physics of open systems where the function of each oscillator is affected by its environment Time frequency analysis being essential recent advances in this area including wavelet phase coherence analysis and nonlinear mode decomposition are discussed Some applications to biology and physiology are described Although the most important manifestation of time variable oscillations is arguably in biology they also crop up in e g astrophysics or for electrons on superfluid helium The book brings together the research of the best international experts in seemingly very different disciplinary areas

Regularity and Stochasticity of Nonlinear Dynamical Systems Dimitri Volchenkov, Xavier Leoncini, 2017-06-24 This book presents recent developments in nonlinear dynamics and physics with an emphasis on complex systems The contributors provide recent theoretic developments and new techniques to solve nonlinear dynamical systems and help readers understand complexity stochasticity and regularity in nonlinear dynamical systems This book covers integro differential equation solvability Poincare recurrences in ergodic systems orientable horseshoe structure analytical routes of periodic motions to chaos grazing on impulsive differential equations from chaos to order in coupled oscillators and differential invariant solutions for automorphic systems inequality under uncertainty

Collective Dynamics of Nonlinear and Disordered Systems Günter Radons, Wolfram Just, Peter Häussler, 2005-11-02 Phase transitions in disordered systems and related dynamical phenomena are a topic of intrinsically high interest in theoretical and experimental physics This book presents a unified view adopting concepts from each of the disjoint fields of disordered systems and nonlinear dynamics Special attention is paid to the glass transition from both experimental and theoretical viewpoints to modern concepts of pattern formation and to the application of the concepts of dynamical systems for understanding equilibrium and nonequilibrium properties of fluids and solids The content is accessible to graduate students but will also be of benefit to specialists since the presentation extends as far as the topics of ongoing research work

Evolution from Cellular to Social Scales Arne T. Skjeltorp, Alexander V. Belushkin, 2008-09-26 Evolution is a critical challenge for many areas of science technology and development of society The book reviews general evolutionary facts such as origin of life and

evolution of the genome and clues to evolution through simple systems Emerging areas of science such as systems biology and bio complexity are founded on the idea that phenomena need to be understood in the context of highly interactive processes operating at different levels and on different scales This is where physics meets complexity in nature and where we must begin to learn about complexity if we are to understand it Similarly there is an increasingly urgent need to understand and predict the evolutionary behavior of highly interacting man made systems in areas such as communications and transport which permeate the modern world The same applies to the evolution of human networks such as social political and financial systems where technology has tended to vastly increase both the complexity and speed of interaction which is sometimes effectively instantaneous The book contains reviews on such diverse areas as evolution experiments with microorganisms the origin and evolution of viruses evolutionary dynamics of genes and environment in cancer development aging as an evolution facilitating program evolution of vision and evolution of financial markets Control of Self-Organizing Nonlinear Systems Eckehard Schöll, Sabine H. L. Klapp, Philipp Hövel, 2016-01-22 The book summarizes the state of the art of research on control of self organizing nonlinear systems with contributions from leading international experts in the field The first focus concerns recent methodological developments including control of networks and of noisy and time delayed systems As a second focus the book features emerging concepts of application including control of quantum systems soft condensed matter and biological systems Special topics reflecting the active research in the field are the analysis and control of chimera states in classical networks and in quantum systems the mathematical treatment of multiscale systems the control of colloidal and quantum transport the control of epidemics and of neural network dynamics

Dynamical Symmetries And Chaotic Behaviour In Physical Systems - Enea Workshop On Nonlinear Dynamics - Vol 1 M Pettini, Giuseppe Maino, L Fronzoni, 1990-12-27 This Workshop in nonlinear dynamics and mathematical physics organized by the Italian Nuclear Energy Agency ENEA in Bologna is intended to give an updated overview of modern trends in the field of nonlinear dynamics with emphasis on applications to physics quantum theory plasma physics and fluid dynamics optics and electrodynamics computer simulation and neural networks Alcohol Health and Research World, 1990 Selforganization in Complex Systems: The Past, Present, and Future of Synergetics Günter Wunner, Axel Pelster, 2015-12-26 This proceedings volume contains talks and poster presentations from the International Symposium Self Organization in Complex Systems The Past Present and Future of Synergetics which took place at Hanse Wissenschaftskolleg an Institute of Advanced Studies in Delmenhorst Germany during the period November 13 16 2012 The Symposium was organized in honour of Hermann Haken who celebrated his 85th birthday in 2012 With his fundamental theory of Synergetics he had laid the mathematical physical basis for describing and analyzing self organization processes in a diversity of fields of research The quest for common and universal principles of self organization in complex systems was clearly covered by the wide range of interdisciplinary topics reported during the Symposium These extended from complexity in classical systems

and quantum systems over self organisation in neuroscience even to the physics of finance Moreover by combining a historical view with a present status report the Symposium conveyed an impression of the allure and potency of this branch of research as well as its applicability in the future Chaos/nonlinear Dynamics Helena S. Wisniewski,1994 Chimera Patterns in Networks Anna Zakharova,2020-03-09 This is the first book devoted to chimera states peculiar partial synchronization patterns in networks Providing an overview of the state of the art in research on this topic it explores how these hybrid states which are composed of spatially separated domains of synchronized and desynchronized behavior arise surprisingly in networks of identical units and symmetric coupling topologies The book not only describes various types of chimeras but also discusses the role of time delay stochasticity and network topology for these synchronization desynchronization patterns Moreover it addresses the question of robustness and control of chimera states which have various applications in physics biology chemistry and engineering This book is intended for researchers with a background in physics applied mathematics or engineering Of great interest to specialists working on related problems it is also a valuable resource for newcomers to the field and other scientists working on the control of spatio temporal patterns

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