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2-D Quadratic Maps and 3-D ODE Systems

A Rigorous Approach

Zeraoulia Elhadj
Julien Clinton Sprott



World Scientific

**D Quadratic Maps And 3 D Ode Systems A Rigorous
Approach World Scientific Series On Nonlinear Science
Series A World Scientific Series On Nonlinear Science
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Leon O Chua



D Quadratic Maps And 3 D Ode Systems A Rigorous Approach World Scientific Series On Nonlinear Science Series A World Scientific Series On Nonlinear Science Series A:

2-d Quadratic Maps And 3-d Ode Systems: A Rigorous Approach Zeraoulia Elhadj, Julien Clinton Sprott, 2010-07-08 This book is based on research on the rigorous proof of chaos and bifurcations in 2 D quadratic maps especially the invertible case such as the Hénon map and in 3 D ODE s especially piecewise linear systems such as the Chua s circuit In addition the book covers some recent works in the field of general 2 D quadratic maps especially their classification into equivalence classes and finding regions for chaos hyperchaos and non chaos in the space of bifurcation parameters Following the main introduction to the rigorous tools used to prove chaos and bifurcations in the two representative systems is the study of the invertible case of the 2 D quadratic map where previous works are oriented toward Hénon mapping 2 D quadratic maps are then classified into 30 maps with well known formulas Two proofs on the regions for chaos hyperchaos and non chaos in the space of the bifurcation parameters are presented using a technique based on the second derivative test and bounds for Lyapunov exponents Also included is the proof of chaos in the piecewise linear Chua s system using two methods the first of which is based on the construction of Poincaré map and the second is based on a computer assisted proof Finally a rigorous analysis is provided on the bifurcational phenomena in the piecewise linear Chua s system using both an analytical 2 D mapping and a 1 D approximated Poincaré mapping in addition to other analytical methods A Nonlinear Dynamics Perspective of Wolfram's New Kind of Science Leon O. Chua, 2011-03-30 Annotation This text introduces cellular automata from a rigorous nonlinear dynamics perspective It supplies the missing link between nonlinear differential and difference equations to discrete symbolic analysis It provides an analysis and classification of the empirical results presented in Wolfram s New Kind of Science **Nonlinear Dynamics Perspective Of Wolfram's New Kind Of Science, A (Volume Iv)** Leon O Chua, 2011-04-06 Volume IV continues the author s odyssey on 1 D cellular automata as chronicled in Volumes I II and III by uncovering a novel quasi ergodicity phenomenon involving orbits meandering among omega limit orbits of complex group 5 and hyper group 6 Bernoulli rules This discovery is embellished with analytical formulas characterizing the fractal properties of characteristic functions as well as explicit formulas for generating colorful and pedagogically revealing isomorphic basin tree diagrams Many new results were derived and proved by uncovering subtle symmetries endowed by various subsets of the 256 Boolean cubes For the first time rigorous analyses were used to identify 67 out of 256 local rules whose asymptotic behaviors consist of robust period 1 orbits The highlight of this continuing odyssey is the discovery of an isolated period 3240 Isle of Eden hidden among the dense omega limit orbits of Wolfram s remarkable random number generating rule 30 This is the largest gem known to date and readers are challenged to uncover even larger ones

Nonlinear Dynamics Perspective Of Wolfram's New Kind Of Science, A (Volume Vi) Leon O Chua, 2013-07-10 This invaluable volume ends the quest to uncover the secret recipes for predicting the long term evolution of a ring of identical

elementary cells where the binary state of each cell during each generation of an attractor i.e. after the transients had disappeared is determined uniquely by the state of its left and right neighbors in the previous generation as decreed by one of 256 truth tables. As befitting the contents aimed at school children it was found pedagogically appealing to code each truth table by coloring each of the 8 vertices of a cubical graph in red for binary state 1 or blue for binary state 0 forming a toy universe of 256 Boolean cubes each bearing a different vertex color combination. The corresponding collection of 256 distinct Boolean cubes are then segregated logically into 6 distinct groups where members from each group share certain common dynamics which allow the long term evolution of the color configuration of each bit string of arbitrary length to be predicted painlessly via a toy like gaming procedure without involving any calculation. In particular the evolution of any bit string bearing any initial color configuration which resides in any one of the possibly many distinct attractors can be systematically predicted by school children who are yet to learn arithmetic via a simple recipe for any Boolean cube belonging to group 1, 2, 3 or 4. The simple recipe for predicting the time asymptotic behaviors of Boolean cubes belonging to groups 1, 2 and 3 has been covered in Vols I, II, V. This final volume continues the recipe for each of the 108 out of 256 local rules dubbed the Bernoulli rules belonging to group 4. Here for almost half of the toy universe surprisingly simple recipes involving only the following three pieces of information are derived in Vol VI namely a positive integer, a positive or negative integer and a sign parameter 0 or 1. In particular given any color configuration belonging to an attractor of any one of the 108 Boolean cubes from group 4 any child can predict the color configuration after generations without any computation by merely shifting each cell bits to the left resp. right if 0 resp. 1.

Nonlinear Dynamics Perspective Of Wolfram's New Kind Of Science, A (Volume V)
 Leon O Chua, 2012-03-13. This penultimate volume contains numerous original elegant and surprising results in 1 dimensional cellular automata. Perhaps the most exciting if not shocking new result is the discovery that only 82 local rules out of 256 suffice to predict the time evolution of any of the remaining 174 local rules from an arbitrary initial bit string configuration. This is contrary to the well known folklore that 256 local rules are necessary leading to the new concept of quasi global equivalence. Another surprising result is the introduction of a simple yet explicit infinite bit string called the super string S which contains all random bit strings of finite length as sub strings. As an illustration of the mathematical subtlety of this amazing discrete testing signal the super string S is used to prove mathematically in a trivial and transparent way that rule 170 is as chaotic as a coin toss. Yet another unexpected new result among many others is the derivation of an explicit basin tree generation formula which provides an analytical relationship between the basin trees of globally equivalent local rules. This formula allows the symbolic rather than numerical generation of the time evolution of any local rule corresponding to any initial bit string configuration from one of the 88 globally equivalent local rules. But perhaps the most provocative idea is the proposal for adopting rule 137 over its three globally equivalent siblings including the heretofore more well known rule 110 as the prototypical universal Turing machine.

Topology and Dynamics of Chaos Christophe Letellier, 2013. The

book surveys how chaotic behaviors can be described with topological tools and how this approach occurred in chaos theory. Some modern applications are included. The contents are mainly devoted to topology, the main field of Robert Gilmore's works in dynamical systems. They include a review on the topological analysis of chaotic dynamics works done in the past as well as the very latest issues. Most of the contributors who published during the 90's including the very well known scientists Otto Rössler, René Lozi, and Joan Birman have made a significant impact on chaos theory, discrete chaos, and knot theory respectively. Very few books cover the topological approach for investigating nonlinear dynamical systems. The present book will provide not only some historical, but not necessarily widely known, contributions about the different types of chaos introduced by Rössler and not just the Rössler attractor. Gumowski and Mira's contributions in electronics, Poincaré's heritage in nonlinear dynamics, but also some recent applications in laser dynamics, biology.

Development of Memristor Based Circuits Herbert Ho-Ching Iu, Andrew L. Fitch, 2013. Summary: As memristors are not yet on the market, the development of memristor emulators and memristor based circuits is very important for real and practical engineering applications. The objectives of this book are to review the basic concepts of the memristor, describe the state of the art memristor based circuits, and to stimulate further research and development in this area.

Preface

Elements Of Mathematical Theory Of Evolutionary Equations In Banach Spaces Anatoliy M Samoilenko, Yuriy Teplinsky, 2013-05-03. Evolutionary equations are studied in abstract Banach spaces and in spaces of bounded number sequences. For linear and nonlinear difference equations which are defined on finite dimensional and infinite dimensional tori, the problem of reducibility is solved in particular in neighborhoods of their invariant sets, and the basics for a theory of invariant tori and bounded semi-invariant manifolds are established. Also considered are the questions on existence and approximate construction of periodic solutions for difference equations in infinite dimensional spaces and the problem of extendibility of the solutions in degenerate cases. For nonlinear differential equations in spaces of bounded number sequences, new results are obtained in the theory of countable point boundary value problems. The book contains new mathematical results that will be useful towards advances in nonlinear mechanics and theoretical physics.

Robust Chaos and Its Applications Elhadj Zeraouia, Julien C. Sprott, 2012. Robust chaos is defined by the absence of periodic windows and coexisting attractors in some neighborhoods in the parameter space of a dynamical system. This unique book explores the definition, sources, and roles of robust chaos. The book is written in a reasonably self-contained manner and aims to provide students and researchers with the necessary understanding of the subject. Most of the known results, experiments, and conjectures about chaos in general and about robust chaos in particular are collected here in a pedagogical form. Many examples of dynamical systems ranging from purely mathematical to natural and social processes displaying robust chaos are discussed in detail. At the end of each chapter is a set of exercises and open problems, more than 260 in the whole book, intended to reinforce the ideas and provide additional experiences for both readers and researchers in nonlinear science in general and chaos theory in particular.

Physarum Machines Andrew Adamatzky, 2010 A Physarum machine is a programmable amorphous biological computer experimentally implemented in the vegetative state of true slime mould *Physarum polycephalum*. It comprises an amorphous yellowish mass with networks of protoplasmic veins programmed by spatial configurations of attracting and repelling gradients. This book demonstrates how to create experimental Physarum machines for computational geometry and optimization, distributed manipulation and transportation and general purpose computation. Being very cheap to make and easy to maintain, the machine also functions on a wide range of substrates and in a broad scope of environmental conditions. As such, a Physarum machine is a green and environmentally friendly unconventional computer. The book is readily accessible to a nonprofessional reader and is a priceless source of experimental tips and inventive theoretical ideas for anyone who is inspired by novel and emerging non-silicon computers and robots. An account on Physarum Machines can be viewed at <http://www.youtube.com/user/PhysarumMachines>

Mathematical Mechanics Ellis D. Cooper, 2011 This unprecedented book offers all the details of the mathematical mechanics underlying state-of-the-art modeling of skeletal muscle contraction. The aim is to provide an integrated vision of mathematics, physics, chemistry, and biology for this one understanding. The method is to take advantage of modern mathematical technology: Eilenberg-Mac Lane category theory, Robinson infinitesimal calculus, and Kolmogorov probability theory to examine a succession of distinguishable universes of particles and continuous thermodynamic, chemical, and molecular bodies, all with a focus on proofs by algebraic calculation without set theory. Also provided are metaphors and analogies and careful distinction between representational pictures, mental model drawings, and mathematical diagrams. High school mathematics teachers, undergraduate and graduate college students, and researchers in mathematics, physics, chemistry, and biology may use this integrated publication to broaden their perspective on science and to experience the precision that mathematical mechanics brings to understanding the muscular mechanism of nearly all animal behavior.

Discrete Systems with Memory Ramon Alonso-Sanz, 2011 Memory is a universal function of organized matter. What is the mathematics of memory? How does memory affect the space-time behaviour of spatially extended systems? Does memory increase complexity? This book provides answers to these questions. It focuses on the study of spatially extended systems, i.e. cellular automata and other related discrete complex systems. Thus, arrays of locally connected finite state machines or cells update their states simultaneously in discrete time by the same transition rule. The classical dynamics in these systems is Markovian; only the actual configuration is taken into account to generate the next one. Generalizing the conventional view on spatially extended discrete dynamical systems, evolution is achieved by allowing cells or nodes to be featured by some trait state computed as a function of its own previous state values; the transition maps of the classical systems are kept unaltered so that the effect of memory can be easily traced. The book demonstrates that discrete dynamical systems with memory are not only priceless tools for modeling natural phenomena but unique mathematical and aesthetic objects.

Integral Dynamical Models: Singularities, Signals And Control Denis Sidorov, 2014-09-05 This volume provides a

broad introduction to nonlinear integral dynamical models and new classes of evolutionary integral equations It may be used as an advanced textbook by postgraduate students to study integral dynamical models and their applications in machine learning electrical and electronic engineering operations research and image analysis Qualitative and Asymptotic Analysis of Differential Equations with Random Perturbations Anatoliy M. Samoilenko,Oleksandr Stanzhytskyi,2011 1 Differential equations with random right hand sides and impulsive effects 1 1 An impulsive process as a solution of an impulsive system 1 2 Dissipativity 1 3 Stability and Lyapunov functions 1 4 Stability of systems with permanently acting random perturbations 1 5 Solutions periodic in the restricted sense 1 6 Periodic solutions of systems with small perturbations 1 7 Periodic solutions of linear impulsive systems 1 8 Weakly nonlinear systems 1 9 Comments and references 2 Invariant sets for systems with random perturbations 2 1 Invariant sets for systems with random right hand sides 2 2 Invariant sets for stochastic Ito systems 2 3 The behaviour of invariant sets under small perturbations 2 4 A study of stability of an equilibrium via the reduction principle for systems with regular random perturbations 2 5 Stability of an equilibrium and the reduction principle for Ito type systems 2 6 A study of stability of the invariant set via the reduction principle Regular perturbations 2 7 Stability of invariant sets and the reduction principle for Ito type systems 2 8 Comments and references 3 Linear and quasilinear stochastic Ito systems 3 1 Mean square exponential dichotomy 3 2 A study of dichotomy in terms of quadratic forms 3 3 Linear system solutions that are mean square bounded on the semiaxis 3 4 Quasilinear systems 3 5 Linear system solutions that are probability bounded on the axis A generalized notion of a solution 3 6 Asymptotic equivalence of linear systems 3 7 Conditions for asymptotic equivalence of nonlinear systems 3 8 Comments and references 4 Extensions of Ito systems on a torus 4 1 Stability of invariant tori 4 2 Random invariant tori for linear extensions 4 3 Smoothness of invariant tori 4 4 Random invariant tori for nonlinear extensions 4 5 An ergodic theorem for a class of stochastic systems having a toroidal manifold 4 6 Comments and references 5 The averaging method for equations with random perturbations 5 1 A substantiation of the averaging method for systems with impulsive effect 5 2 Asymptotics of normalized deviations of averaged solutions 5 3 Applications to the theory of nonlinear oscillations 5 4 Averaging for systems with impulsive effects at random times 5 5 The second theorem of M M Bogolyubov for systems with regular random perturbations 5 6 Averaging for stochastic Ito systems An asymptotically finite interval 5 7 Averaging on the semiaxis 5 8 The averaging method and two sided bounded solutions of Ito systems 5 9 Comments and references **Wave Momentum And Quasi-particles In Physical Acoustics** Gerard A Maugin,Martine Rousseau,2015-03-26 This unique volume presents an original approach to physical acoustics with additional emphasis on the most useful surface acoustic waves on solids The study is based on foundational work of L on Brillouin and application of the celebrated invariance theorem of Emmy Noether to an element of volume that is representative of the wave motion This approach provides an easy interpretation of typical wave motions of physical acoustics in bulk at surfaces and across interfaces in the form of the motion of associated quasi particles This type of

motion Newtonian or not depends on the wave motion considered and on the original modeling of the continuum that supports it After a thoughtful review of Brillouin's fundamental ideas related to radiative stresses wave momentum and action and the necessary reminder on modern nonlinear continuum thermomechanics invariance theory and techniques of asymptotics a variety of situations and models illustrates the power and richness of the approach and its strong potential in applications Elasticity piezoelectricity and new models of continua with nonlinearity viscosity and some generalized features microstructure weak or strong nonlocality or unusual situations bounding surface with energy elastic thin film glued on a surface waveguide are considered exhibiting thus the versatility of the approach This original book offers an innovative vision and treatment of the problems of wave propagation in deformable solids It opens up new horizons in the theoretical and applied facets of physical acoustics

Advances in Wave Turbulence Victor Shrira, 2013 Wave or weak turbulence is a branch of science concerned with the evolution of random wave fields of all kinds and on all scales from waves in galaxies to capillary waves on water surface from waves in nonlinear optics to quantum fluids In spite of the enormous diversity of wave fields in nature there is a common conceptual and mathematical core which allows us to describe the processes of random wave interactions within the same conceptual paradigm and in the same language The development of this core and its links with the applications is the essence of wave turbulence science WT which is an established integral part of nonlinear science

Chaos in Nature Christophe Letellier, 2013 Chaos theory deals with the description of motion in a general sense which cannot be predicted in the long term although produced by deterministic system as well exemplified by meteorological phenomena It directly comes from the Lunar theory OCo a three body problem OCo and the difficulty encountered by astronomers to accurately predict the long term evolution of the Moon using OC NewtonianOCO mechanics Henri Poincaré's deep intuitions were at the origin of chaos theory They also led the meteorologist Edward Lorenz to draw the first chaotic attractor ever published But the main idea consists of plotting a curve representative of the system evolution rather than finding an analytical solution as commonly done in classical mechanics Such a novel approach allows the description of population interactions and the solar activity as well Using the original sources the book draws on the history of the concepts underlying chaos theory from the 17th century to the last decade and by various examples show how general is this theory in a wide range of applications meteorology chemistry populations astrophysics biomedicine et

Frontiers in the Study of Chaotic Dynamical Systems with Open Problems Elhadj Zeraouia, 2011 This collection of review articles is devoted to new developments in the study of chaotic dynamical systems with some open problems and challenges The papers written by many of the leading experts in the field cover both the experimental and theoretical aspects of the subject This edited volume presents a variety of fascinating topics of current interest and problems arising in the study of both discrete and continuous time chaotic dynamical systems Exciting new techniques stemming from the area of nonlinear dynamical systems theory are currently being developed to meet these challenges Presenting the state of the art of the more advanced studies of chaotic

dynamical systems *Frontiers in the Study of Chaotic Dynamical Systems with Open Problems* is devoted to setting an agenda for future research in this exciting and challenging field Nonlinear Dynamics and Complexity Valentin Afraimovich, Albert C. J. Luo, Xilin Fu, 2013-11-22 This important collection presents recent advances in nonlinear dynamics including analytical solutions chaos in Hamiltonian systems time delay uncertainty and bio network dynamics *Nonlinear Dynamics and Complexity* equips readers to appreciate this increasingly main stream approach to understanding complex phenomena in nonlinear systems as they are examined in a broad array of disciplines The book facilitates a better understanding of the mechanisms and phenomena in nonlinear dynamics and develops the corresponding mathematical theory to apply nonlinear design to practical engineering *Electrical & Electronics Abstracts* ,1995

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