

One-dimensional maps

- One-dimensional maps, definition:
 - a set V (e.g. real numbers between 0 and 1) $0 \leq x_n \leq 1$
 - a map of the kind $f:V \rightarrow V$

$$x_{n+1} = f(x_n)$$

- Linear maps: $x_{n+1} = ax_n + b$
 - a and b are constants
 - linear maps are invertible with no ambiguity \rightarrow no chaos
- Non-linear maps: The logistic map $0 \leq x \leq 1$

$$f(x) = \mu x(1 - x)$$

Dynamics Of One Dimensional Maps

G Psacharopoulos



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Dynamics of One-Dimensional Maps A.N. Sharkovsky, S.F. Kolyada, A.G. Sivak, V.V. Fedorenko, 2013-06-29 maps whose topological entropy is equal to zero i.e. maps that have only cycles of periods 1, 2, 2 are studied in detail and classified. Various topological aspects of the dynamics of unimodal maps are studied in Chapter 5. We analyze the distinctive features of the limiting behavior of trajectories of smooth maps. In particular, for some classes of smooth maps we establish theorems on the number of sinks and study the problem of existence of wandering intervals. In Chapter 6, for a broad class of maps we prove that almost all points with respect to the Lebesgue measure are attracted by the same sink. Our attention is mainly focused on the problem of existence of an invariant measure absolutely continuous with respect to the Lebesgue measure. We also study the problem of Lyapunov stability of dynamical systems and determine the measures of repelling and attracting invariant sets. The problem of stability of separate trajectories under perturbations of maps and the problem of structural stability of dynamical systems as a whole are discussed in Chapter 7. In Chapter 8 we study one parameter families of maps. We analyze bifurcations of periodic trajectories and properties of the set of bifurcation values of the parameter including universal properties such as Feigenbaum universality.

Continuous And Discontinuous Piecewise-smooth

One-dimensional Maps: Invariant Sets And Bifurcation Structures Viktor Avrutin, Laura Gardini, Iryna Sushko, Fabio Tramontana, 2019-05-28 The investigation of dynamics of piecewise smooth maps is both intriguing from the mathematical point of view and important for applications in various fields ranging from mechanical and electrical engineering up to financial markets. In this book we review the attracting and repelling invariant sets of continuous and discontinuous one dimensional piecewise smooth maps. We describe the bifurcations occurring in these maps: border collision and degenerate bifurcations as well as homoclinic bifurcations and the related transformations of chaotic attractors and survey the basic scenarios and structures involving these bifurcations. In particular, the bifurcation structures in the skew tent map and its application as a border collision normal form are discussed. We describe the period adding and incrementing bifurcation structures in the domain of regular dynamics of a discontinuous piecewise linear map and the related bandcount adding and incrementing structures in the domain of robust chaos. Also we explain how these structures originate from particular codimension two bifurcation points which act as organizing centers. In addition we present the map replacement technique which provides a powerful tool for the description of bifurcation structures in piecewise linear and other form of invariant maps to a much further extent than the other approaches.

Dynamic Economic Analysis

Gerhard Sorger, 2015-02-12 Concise yet rigorous this textbook provides a clear and systematic introduction to the theory and application of dynamic economic models.

Topics In Theoretical Physics - Proceedings Of The Second Pacific Winter For Theoretical Physics

Yongmin Cho, 1997-04-01 Recently exciting new notions have been emerging in theoretical physics. The quantum nature of gravitation revealed in the physics of black holes, exotic excitations obeying fractional statistics and integrable structure such

as Yangian symmetry in low dimensional models are some of the subjects presented in this volume The spectrum of the talks at the School reflected in the proceedings is a wide one ranging from the phenomenology of particle physics to that of condensed matter physics to topics of a mathematical nature This is an indication that there is a robust interplay of ideas from diverse disciplines of theoretical physics in the Asia Pacific region

Control and Mechatronics Bogdan Wilamowski, J. David Irwin, 2018-10-08 The Industrial Electronics Handbook Second Edition combines traditional and newer more specialized knowledge that will help industrial electronics engineers develop practical solutions for the design and implementation of high power applications Embracing the broad technological scope of the field this collection explores fundamental areas including analog and digital circuits electronics electromagnetic machines signal processing and industrial control and communications systems It also facilitates the use of intelligent systems such as neural networks fuzzy systems and evolutionary methods in terms of a hierarchical structure that makes factory control and supervision more efficient by addressing the needs of all production components Enhancing its value this fully updated collection presents research and global trends as published in the IEEE Transactions on Industrial Electronics Journal one of the largest and most respected publications in the field Control and Mechatronics presents concepts of control theory in a way that makes them easily understandable and practically useful for engineers or students working with control system applications Focusing more on practical applications than on mathematics this book avoids typical theorems and proofs and instead uses plain language and useful examples to Concentrate on control system analysis and design comparing various techniques Cover estimation observation and identification of the objects to be controlled to ensure accurate system models before production Explore the various aspects of robotics and mechatronics Other volumes in the set Fundamentals of Industrial Electronics Power Electronics and Motor Drives Industrial Communication Systems Intelligent Systems

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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

Universality in Chaos, 2nd edition P Cvitanovic, 2017-07-12 Nature provides many examples of physical systems that are described by deterministic equations of motion but that nevertheless exhibit nonpredictable behavior The detailed description of turbulent motions remains perhaps the outstanding unsolved problem of classical physics In recent years however a new theory has been

formulated that succeeds in making quantitative predictions describing certain transitions to turbulence Its significance lies in its possible application to large classes often very dissimilar of nonlinear systems Since the publication of *Universality in Chaos* in 1984 progress has continued to be made in our understanding of nonlinear dynamical systems and chaos This second edition extends the collection of articles to cover recent developments in the field including the use of statistical mechanics techniques in the study of strange sets arising in dynamics It concentrates on the universal aspects of chaotic motions the qualitative and quantitative predictions that apply to large classes of physical systems Much like the previous edition this book will be an indispensable reference for researchers and graduate students interested in chaotic dynamics in the physical biological and mathematical sciences as well as engineering Mathematical Reviews ,2005 **Chaotic Maps** Goong Chen,Yu Huang,2011 This book consists of lecture notes for a semester long introductory graduate course on dynamical systems and chaos taught by the authors at Texas A M University and Zhongshan University China There are ten chapters in the main body of the book covering an elementary theory of chaotic maps in finite dimensional spaces The topics include one dimensional dynamical systems interval maps bifurcations general topological symbolic dynamical systems fractals and a class of infinite dimensional dynamical systems which are induced by interval maps plus rapid fluctuations of chaotic maps as a new viewpoint developed by the authors in recent years Two appendices are also provided in order to ease the transitions for the readership from discrete time dynamical systems to continuous time dynamical systems governed by ordinary and partial differential equations Table of Contents Simple Interval Maps and Their Iterations Total Variations of Iterates of Maps Ordering among Periods The Sharkovski Theorem Bifurcation Theorems for Maps Homoclinicity Lyapunoff Exponents Symbolic Dynamics Conjugacy and Shift Invariant Sets The Smale Horseshoe Fractals Rapid Fluctuations of Chaotic Maps on \mathbb{R}^n Infinite dimensional Systems Induced by Continuous Time Difference Equations *One-Dimensional Dynamics* Yiheng Dong,Marco Martens,Liviana Palmisano,2025-08-31 The aim of the book is to give an introduction to the main concepts in modern dynamics The Herman Theorem on rigidity of circle diffeomorphisms is used to achieve this goal Indeed we reprove this sophisticated theorem with modern techniques involving renormalization and in the meantime discuss most of the important concepts used in dynamics The one dimensional context of the Herman Theorem reduces the technical difficulties and allows to present tools and theories to students with modest background The book can definitely be used on Master s level Grazer mathematische Berichte ,2002 *Journal of Dynamic Systems, Measurement, and Control* ,1991 Publishes theoretical and applied original papers in dynamic systems Theoretical papers present new theoretical developments and knowledge for controls of dynamical systems together with clear engineering motivation for the new theory Applied papers include modeling simulation and corroboration of theory with emphasis on demonstrated practicality **Acta Physica Hungarica** ,1987 **Physical Review** ,2000-02 Publishes papers that report results of research in statistical physics plasmas fluids and related interdisciplinary topics There are sections on 1 methods of statistical physics 2

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