

Yingcui Zhao, Lidong Wang\*, and Nan Wang

# Li-Yorke chaos for maps on $G$ -Spaces

**Abstract:** We introduce the definition of Li-Yorke chaos for the map  $f$  on  $G$ -spaces, and show  $G$ -Li-Yorke chaos is iterable for  $f$ . Li-Yorke chaos implies  $G$ -Li-Yorke chaos, while the converse is not true. Then we give a sufficient condition for  $f$  to be chaotic in the sense of  $G$ -Li-Yorke. Also, we prove if  $f$  is  $G$ -transitive and there exists a common fixed point for  $f$  and all the maps in  $G$ , then  $f$  is chaotic in the sense of  $G$ -Li-Yorke.

**Keywords:**  $G$ -spaces,  $G$ -Li-Yorke chaos,  $G$ -transitivity, fixed point, periodic point

## 1 Introduction

Chaos comes from practical problems such as physics, biology, economics, medicine and chemistry. The theory of chaotic dynamical system is one of the challenging issue of dynamical systems. By convention, "chaos" means "a state of confusion without order". While in the theory of chaotic dynamical systems, "chaos" is a technical term. The term "chaos" in discrete dynamical systems was introduced firstly by Li and Yorke in 1975 [1].

Let  $X$  be a metric  $G$ -space and  $f : X \rightarrow X$  be a continuous map.  $Y \subset X$  is said to be a Li-Yorke chaotic set of  $f$ , if it contains at least two points and any pair of distinct points  $x, y \in Y$  is a Li-Yorke pair, i. e.,

$$\liminf_{n \rightarrow \infty} d(f^n(x), f^n(y)) = 0, \quad \limsup_{n \rightarrow \infty} d(f^n(x), f^n(y)) > 0.$$

Moreover, if there exists an uncountable Li-Yorke chaotic set  $S \subset X$  of  $f$ ,  $f$  is said to be chaotic in the sense of Li-Yorke.

In the last fifty years, a large number of papers have been devoted to the study of chaos in the sense of Li and Yorke. Xiong[2] showed if  $f$  is transitive and there exists a fixed point for  $f$ , then  $f$  is chaotic in the sense of Li-Yorke. Wang[6] gave a sufficient condition for  $f$  to be chaotic in the strong sense of Li-Yorke. Seeing [7, 8, 9, 10] for more results about Li-Yorke chaos.

In addition to the topology domain, chaos theory is also being researched in other settings. Recently, chaos is being defined and studied for group actions, set-valued maps, iterated function system and so on. The present paper focuses on  $G$ -space.

Ekta studied Devaney's chaos for maps on  $G$ -space in [11]. Ali and Ekta defined and studied the notion of chain transitivity for maps on  $G$ -spaces in [12]. Phiniao and Khundrakpam investigated the  $G$ -mixing,  $G$ -sensitive and  $G$ -shadowing property of  $f$  in [13]. Ji Zhanjiang introduced the concepts of  $G$ -chain mixing,  $G$ -mixing, and  $G$ -chain transitivity in metric  $G$ -space, and then researched them in [14]. Raad and Ishikar studied the sequence  $G$ -asymptotic average shadowing property with  $G$ -chain transitive in [15].

The aim of present paper is to define and study Li-Yorke chaos for maps on  $G$ -spaces. The specific layout of the present paper is as follows. Some preliminaries and definitions are introduced in the next section. Then we will give some propositions in Sec. 3. In the last section, the main conclusions are given.

## 2 Preliminaries and Basic Concepts

Throughout this paper,  $\mathbf{N} = \{0, 1, 2, \dots\}$ ,  $\mathbf{Z}^+ = \{1, 2, 3, \dots\}$  and  $\mathbf{Z} = \{\dots, -2, -1, 0, 1, 2, \dots\}$ . Let  $(X, d)$  be a metric  $G$ -space,  $G$  be a topological group and  $\varphi$  be a continuous map from  $G \times X$  to  $X$ [4]. The  $(X, G, \varphi)$  or  $X$  is called to be a metric  $G$ -space if the following conditions are satisfied:

- (1)  $\varphi(e, x) = x$  for all  $x \in X$  where  $e$  is the identity of  $G$ ;
- (2)  $\varphi(g_1, \varphi(g_2, x)) = \varphi(g_1 g_2, x)$  for all  $x \in X$  and all  $g_1, g_2 \in G$ .

# Yorke Chaos Solution Manual

**Celso Grebogi, James A. Yorke**



## **Yorke Chaos Solution Manual:**

Nonlinear Dynamics and Chaos with Student Solutions Manual Steven H. Strogatz, 2018-09-21 This textbook is aimed at newcomers to nonlinear dynamics and chaos especially students taking a first course in the subject The presentation stresses analytical methods concrete examples and geometric intuition The theory is developed systematically starting with first order differential equations and their bifurcations followed by phase plane analysis limit cycles and their bifurcations and culminating with the Lorenz equations chaos iterated maps period doubling renormalization fractals and strange attractors

**Laws of Chaos** Abraham Boyarsky, Pawel Gora, 2012-12-06 A hundred years ago it became known that deterministic systems can exhibit very complex behavior By proving that ordinary differential equations can exhibit strange behavior Poincare undermined the foundations of Newtonian physics and opened a window to the modern theory of nonlinear dynamics and chaos Although in the 1930s and 1940s strange behavior was observed in many physical systems the notion that this phenomenon was inherent in deterministic systems was never suggested Even with the powerful results of S Smale in the 1960s complicated behavior of deterministic systems remained no more than a mathematical curiosity Not until the late 1970s with the advent of fast and cheap computers was it recognized that chaotic behavior was prevalent in almost all domains of science and technology Smale horseshoes began appearing in many scientific fields In 1971 the phrase strange attractor was coined to describe complicated long term behavior of deterministic systems and the term quickly became a paradigm of nonlinear dynamics The tools needed to study chaotic phenomena are entirely different from those used to study periodic or quasi periodic systems these tools are analytic and measure theoretic rather than geometric For example in throwing a die we can study the limiting behavior of the system by viewing the long term behavior of individual orbits This would reveal incomprehensibly complex behavior Or we can shift our perspective Instead of viewing the long term outcomes themselves we can view the probabilities of these outcomes This is the measure theoretic approach taken in this book

**Chaotic Systems with Multistability and Hidden Attractors** Xiong Wang, Nikolay V. Kuznetsov, Guanrong Chen, 2021-12-01 This book presents a collection of new articles written by world leading experts and active researchers to present their recent finding and progress in the new area of chaotic systems and dynamics regarding emerging subjects of unconventional chaotic systems and their complex dynamics It guide readers directly to the research front of the new scientific studies This book is unique of its kind in the current literature presenting broad scientific research topics including multistability and hidden attractors in unconventional chaotic systems such as chaotic systems without equilibria with only stable equilibria with a curve or a surface of equilibria The book describes many novel phenomena observed from chaotic systems such as non Shilnikov type chaos coexistence of different types of attractors and spontaneous symmetry breaking in chaotic systems The book presents state of the art scientific research progress in the field with both theoretical advances and potential applications This book is suitable for all researchers and professionals in the areas of nonlinear dynamics and

complex systems including research professionals physicists applied mathematicians computer scientists and in particular graduate students in related fields      Chemical Chaos Stephen K. Scott, 1993 This valuable account of chemical chaos now available in paperback reviews both theory and experiment emphasizing the simple features that combine to produce order within disorder The author begins by revealing the links between chemical kinetics and the interdisciplinary subject of dynamical systems Various bifurcation sequences are then introduced through representative model schemes with the emphasis on generality and simplicity Chaos arises in both conventional chemical reactions and forced or couples systems and both are considered here Various experimental and diagnostic techniques to test for chaos are then described and the remaining chapters review experimental studies in a wide range of chemical and biochemical systems      **Attractors, Bifurcations, and Chaos** Tönu Puu, 2013-04-17 The present book relies on various editions of my earlier book *Nonlinear Economic Dynamics* first published in 1989 in the Springer series *Lecture Notes in Economics and Mathematical Systems* and republished in three more successively revised and expanded editions as a Springer monograph in 1991 1993 and 1997 The first three editions were focused on applications The last was considerably different by including some chapters with mathematical background material ordinary differential equations and iterated maps so as to make the book more self contained and suitable as a textbook for economics students of dynamical systems To the same pedagogical purpose the number of illustrations were expanded The author also prepared some of the software used in producing the illustrations for use by the readers on the PC by making the programs interactive and providing them with a user interface Simulations are essential when dealing with nonlinear systems where closed form solutions do not exist Even theoretical science then becomes experimental The software prepared for that book can still be acquired directly from the author at the address tonu.puu@econ.uu.se The present book has been so much changed that I felt it reasonable to give it a new title There are two new mathematics chapters on partial differential equations and on catastrophe theory making the mathematical background material fairly complete There is also an account of the recently emergent method of critical lines and absorbing areas for non invertible maps added to the chapter on maps      *Topics in Applied Mechanics* J.F. Dijkman, F.T. Nieuwstadt, 2012-12-06 In collaboration with the Contact Group Experimental Mechanics in The Netherlands and under the auspices of the Technological Institute of the Koninklijke Vlaamse Ingenieurs Vereniging Royal Flemish Society of Engineers the Department of Applied Mechanics of the Koninklijk Instituut van Ingenieurs Royal Institution of Engineers in The Netherlands organised the second National Mechanics Congress in The Netherlands on November 16-18 1992 About hundred participants from universities and industrial research laboratories in The Netherlands and Belgium discussed topics around the theme Building Bridges Integration of Theory and Applications in Applied Mechanics Building bridges is of course one of the main tasks of a civil engineer in order to improve the infrastructure of our society Strength stiffness and stability have to be guaranteed for a large number of years of service Localised effects such as shear lag in longitudinal stiffeners small cracks in concrete

structures and effects of corrosion may on the long term lead to catastrophic failure of bridges During the congress J P Gailliez presented a talk about the hydraulic ship lifts in the Canal du Centre in south Belgium Built more than a hundred years ago the elevators still are in a perfect condition and are recognized now as an industrial archeological monument

*Encounters with Chaos and Fractals* Denny Gulick, Jeff Ford, 2024-05-10 *Encounters with Chaos and Fractals* Third Edition provides an accessible introduction to chaotic dynamics and fractal geometry It incorporates important mathematical concepts and backs up the definitions and results with motivation examples and applications The third edition updates this classic book for a modern audience New applications on contemporary topics like data science and mathematical modeling appear throughout Coding activities are transitioned to open source programming languages including Python The text begins with examples of mathematical behavior exhibited by chaotic systems first in one dimension and then in two and three dimensions Focusing on fractal geometry the authors introduce famous infinitely complicated fractals How to obtain computer renditions of them is explained The book concludes with Julia sets and the Mandelbrot set The Third Edition includes More coding activities incorporated in each section with expanded code to include pseudo code with specific examples in MATLAB or its open source cousin Octave and Python Additional exercises many updated from previous editions Proof writing exercises for a more theoretical course Revised sections to include historical context Short sections added to explain applied problems in developing mathematics This edition reveals how these ideas are continuing to be applied in the 21st century while connecting to the long and winding history of dynamical systems The primary focus is the beauty and diversity of these ideas Offering more than enough material for a one semester course the authors show how these subjects continue to grow within mathematics and in many other disciplines

*Applied Mechanics Reviews*, 1996 [Register and Manual](#) Connecticut. Secretary of the State, 1982

*Discrete Dynamical Systems and Difference Equations with Mathematica* Mustafa R.S. Kulenovic, Orlando Merino, 2002-02-27 Following the work of Yorke and Li in 1975 the theory of discrete dynamical systems and difference equations developed rapidly The applications of difference equations also grew rapidly especially with the introduction of graphical interface software that can plot trajectories calculate Lyapunov exponents plot bifurcation diagrams and find basins of attraction

[Mathematics Today](#), 1998 *Scientific and Technical Aerospace Reports*, 1986

**The Impact of Chaos on Science and Society** Celso Grebogi, James A. Yorke, 1997 Prompted by the growing body of knowledge about chaotic behavior in an increasing number of scientific disciplines this volume brings together a distinguished group of experts to evaluate the impact that chaos has had on the conduct of science and on our understanding of society

**Atmospheric Modeling, Data Assimilation and Predictability** Eugenia Kalnay, 2003 This book first published in 2002 is a graduate level text on numerical weather prediction including atmospheric modeling data assimilation and predictability

**Computable Foundations for Economics** K. Vela Velupillai, 2012-07-26 *Computable Foundations for Economics* is a unified collection of essays some of which are published here for the first time and all of which have been updated for this

book on an approach to economic theory from the point of view of algorithmic mathematics By algorithmic mathematics the author means computability theory and constructive mathematics This is in contrast to orthodox mathematical economics and game theory which are formalised with the mathematics of real analysis underpinned by what is called the ZFC formalism i e set theory with the axiom of choice This reliance on ordinary real analysis and the ZFC system makes economic theory in its current mathematical mode completely non algorithmic which means it is numerically meaningless The book provides a systematic attempt to dissect and expose the non algorithmic content of orthodox mathematical economics and game theory and suggests a reformalization on the basis of a strictly rigorous algorithmic mathematics This removes the current schizophrenia in mathematical economics and game theory where theory is entirely divorced from algorithmic applicability for experimental and computational exercises The chapters demonstrate the uncomputability and non constructivity of core areas of general equilibrium theory game theory and recursive macroeconomics The book also provides a fresh look at the kind of behavioural economics that lies behind Herbert Simon s work and resurrects a role for the noble classical traditions of induction and verification viewed and formalised now algorithmically It will therefore be of particular interest to postgraduate students and researchers in algorithmic economics game theory and classical behavioural economics

**Computer-Assisted Simulation of Dynamic Systems with Block Diagram Languages** Nicholas M.

Karayanakis,1993-06-24 Computer Assisted Simulation of Dynamic Systems with Block Diagram Languages explores the diverse applications of these indispensable simulation tools The first book of its kind it bridges the gap between block diagram languages and traditional simulation practice by linking the art of analog hybrid computation with modern pc based technology Direct analogies are explored as a means of promoting interdisciplinary problem solving The reader progresses step by step through the creative modeling and simulation of dynamic systems from disciplines as diverse from each other as biology electronics physics and mathematics The book guides the reader to the dynamic simulation of chaos conformal mapping VTOL aircraft and other highly specialized topics Alternate methods of simulating a single device to emphasize the dynamic rather than schematic features of a system are provided Nearly forgotten computational techniques like that of integrating with respect to a variable other than time are revived and applied to simulation and signal processing Actual working models are found throughout this eminently readable book along with a complete international bibliography for individuals researching subjects in dynamic systems This is an excellent primary text for undergraduate and graduate courses in computer simulation or an adjunct text for a dynamic systems course It is also recommended as a professional reference book **Books in Print** ,1953 **American Book Publishing Record** ,1995 *Publishers' Circular and Booksellers' Record of British and Foreign Literature* ,1935 *Words on Cassette*, 2002 R R Bowker Publishing,2002

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