

Chris Preston

# Iterates of Piecewise Monotone Mappings on an Interval

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# Iterates Of Piecewise Monotone

**Neil Dobbs, Mike Todd**



## **Iterates Of Piecewise Monotone:**

**Iterates of Piecewise Monotone Mappings on an Interval** Chris Preston, 2006-11-15 Piecewise monotone mappings on an interval provide simple examples of discrete dynamical systems whose behaviour can be very complicated These notes are concerned with the properties of the iterates of such mappings The material presented can be understood by anyone who has had a basic course in one dimensional real analysis The account concentrates on the topological as opposed to the measure theoretical aspects of the theory of piecewise monotone mappings As well as offering an elementary introduction to this theory these notes also contain a more advanced treatment of the problem of classifying such mappings up to topological conjugacy

**Iterates of Piecewise Monotone Mappings on an Interval** Christopher J. Preston, 1987 *Iteration Theory - Proceedings Of The European Conference* C Simo, Christian Mira, Gyoergy Targonski, Norbert Netzer, 1991-07-22 The main topics of this proceedings stress the interactions between the theory of functional equations and the theory of dynamical systems A total of 38 invited lectures are included

*Iterates of Maps on an Interval* C. Preston, 2006-11-15

One-Dimensional Dynamics Welington de Melo, Sebastian van Strien, 2012-12-06 One dimensional dynamics has developed in the last decades into a subject in its own right Yet many recent results are inaccessible and have never been brought together For this reason we have tried to give a unified account of the subject and complete proofs of many results To show what results one might expect the first chapter deals with the theory of circle diffeomorphisms The remainder of the book is an attempt to develop the analogous theory in the non invertible case despite the intrinsic additional difficulties In this way we have tried to show that there is a unified theory in one dimensional dynamics By reading one or more of the chapters the reader can quickly reach the frontier of research Let us quickly summarize the book The first chapter deals with circle diffeomorphisms and contains a complete proof of the theorem on the smooth linearizability of circle diffeomorphisms due to M Herman J C Yoccoz and others Chapter II treats the kneading theory of Milnor and Thurston also included are an exposition on Hofbauer's tower construction and a result on full multimodal families this last result solves a question posed by J Milnor

Grammatical Complexity and One-dimensional Dynamical Systems Huimin Xie, 1996 A combinatorial method is developed in this book to explore the mysteries of chaos which has become a topic of science since 1975 Using tools from theoretical computer science formal languages and automata the complexity of symbolic behaviors of dynamical systems is classified and analysed thoroughly This book is mainly devoted to explanation of this method and apply it to one dimensional dynamical systems including the circle and interval maps which are typical in exhibiting complex behavior through simple iterated calculations The knowledge for reading it is self contained in the book

**Coding Theory and Algebraic Geometry** Henning Stichtenoth, Michael A. Tsfasman, 2006-11-15 About ten years ago V D Goppa found a surprising connection between the theory of algebraic curves over a finite field and error correcting codes The aim of the meeting Algebraic Geometry and Coding Theory was to give a survey on the present state of research in this field and related topics

The proceedings contain research papers on several aspects of the theory among them Codes constructed from special curves and from higher dimensional varieties Decoding of algebraic geometric codes Trace codes Exponential sums Fast multiplication in finite fields Asymptotic number of points on algebraic curves Sphere packings Dynamics Reported, 2012-12-06 DYNAMICS REPORTED reports on recent developments in dynamical systems Dynamical systems of course originated from ordinary differential equations Today dynamical systems cover a much larger area including dynamical processes described by functional and integral equations by partial and stochastic differential equations etc Dynamical systems have involved remarkably in recent years A wealth of new phenomena new ideas and new techniques are proving to be of considerable interest to scientists in rather different fields It is not surprising that thousands of publications on the theory itself and on its various applications are appearing DYNAMICS REPORTED presents carefully written articles on major subjects in dynamical systems and their applications addressed not only to specialists but also to a broader range of readers including graduate students Topics are advanced while detailed exposition of ideas restriction to typical results rather than the most general one and last but not least lucid proofs help to gain the utmost degree of clarity It is hoped that DYNAMICS REPORTED will be useful for those entering the field and will stimulate an exchange of ideas among those working in dynamical systems Summer 1991 Christopher K R T Jones Drs Kirchgraber Hans Otto Walther Managing Editors Table of Contents The Spectral Decomposition for One Dimensional Maps Alexander M Blokh Introduction and Main Results 1 1 Preliminaries 1 1 0 1 1 Historical Remarks 2 1 2 A Short Description of the Approach Presented 3 1 3 Solenoidal Sets 4 Basic Sets 1 4 **Combinatorial Dynamics And Entropy In Dimension One (2nd Edition)** Luis Alseda,Jaume Llibre,Michal Misiurewicz,2000-10-31 This book introduces the reader to the two main directions of one dimensional dynamics The first has its roots in the Sharkovskii theorem which describes the possible sets of periods of all cycles periodic orbits of a continuous map of an interval into itself The whole theory which was developed based on this theorem deals mainly with combinatorial objects permutations graphs etc it is called combinatorial dynamics The second direction has its main objective in measuring the complexity of a system or the degree of chaos present in it for that the topological entropy is used The book analyzes the combinatorial dynamics and topological entropy for the continuous maps of either an interval or the circle into itself **Regularization of Ill-Posed Problems by Iteration Methods** S.F. Gilyazov,N.L. Gol'dman,2013-04-17 Iteration regularization i e utilization of iteration methods of any form for the stable approximate solution of ill posed problems is one of the most important but still insufficiently developed topics of the new theory of ill posed problems In this monograph a general approach to the justification of iteration regularization algorithms is developed which allows us to consider linear and nonlinear methods from unified positions Regularization algorithms are the classical iterative methods steepest descent methods conjugate direction methods gradient projection methods etc complemented by the stopping rule depending on level of errors in input data They are investigated for solving linear and nonlinear operator

equations in Hilbert spaces Great attention is given to the choice of iteration index as the regularization parameter and to estimates of errors of approximate solutions Stabilizing properties such as smoothness and shape constraints imposed on the solution are used On the basis of these investigations we propose and establish efficient regularization algorithms for stable numerical solution of a wide class of ill posed problems In particular descriptive regularization algorithms utilizing a priori information about the qualitative behavior of the sought solution and ensuring a substantial saving in computational costs are considered for model and applied problems in nonlinear thermophysics The results of calculations for important applications in various technical fields a continuous casting the treatment of materials and perfection of heat protective systems using laser and composite technologies are given

**Functional Analysis** Edward E., Jr. Odell, Haskell P. Rosenthal, 2006-11-14

The papers in this volume yield a variety of powerful tools for penetrating the structure of Banach spaces including the following topics the structure of Baire class one functions with Banach space applications operator extension problems the structure of Banach lattices tensor products of operators and Banach spaces Banach spaces of certain classes of Fourier series uniformly stable Banach spaces the hyperplane conjecture for convex bodies and applications of probability theory to local Banach space structure With contributions by R Haydon E Odell H Rosenthal On certain classes of Baire 1 functions with applications to Banach space theory K Ball Normed spaces with a weak Gordon Lewis property S J Szarek On the geometry of the Banach Mazur compactum P Wojtaszczyk Some remarks about the space of measures with uniformly bounded partial sums and Banach Mazur distances between some spaces of polynomials N Ghoussoub W B Johnson Operators which factor through Banach lattices not containing  $c_0$  W B Johnson G Schechtman Remarks on Talagrand's deviation inequality for Rademacher functions M Zippin A Global Approach to Certain Operator Extension Problems H Knaust E Odell Weakly null sequences with upper  $l_p$  estimates H Rosenthal S J Szarek On tensor products of operators from  $L_p$  to  $L_q$  T Schlumprecht Limited Sets in Injective Tensor Products F R bigger Lower and upper 2 estimates for order bounded sequences and Dunford Pettis operators between certain classes of Banach lattices D H Leung Embedding  $l_1$  into Tensor Products of Banach Spaces P Hitczenko A remark on the paper Martingale inequalities in rearrangement invariant function spaces by W B Johnson G Schechtman F Chaatit Twisted types and uniform stability

**A First Course in Ergodic Theory**

Karma Dajani, Charlene Kalle, 2021-07-04 A First Course in Ergodic Theory provides readers with an introductory course in Ergodic Theory This textbook has been developed from the authors own notes on the subject which they have been teaching since the 1990s Over the years they have added topics theorems examples and explanations from various sources The result is a book that is easy to teach from and easy to learn from designed to require only minimal prerequisites Features Suitable for readers with only a basic knowledge of measure theory some topology and a very basic knowledge of functional analysis Perfect as the primary textbook for a course in Ergodic Theory Examples are described and are studied in detail when new properties are presented

**Mathematical Research Today and Tomorrow** Carlos Casacuberta, Carles

Casacuberta, Manuel Castellet, 1992-12-14 The Symposium on the Current State and Prospects of Mathematics was held in Barcelona from June 13 to June 18 1991 Seven invited Fields medalists gave talks on the development of their respective research fields The contents of all lectures were collected in the volume together with a transcription of a round table discussion held during the Symposium All papers are expository Some parts include precise technical statements of recent results but the greater part consists of narrative text addressed to a very broad mathematical public CONTENTS R Thom Leaving Mathematics for Philosophy S Novikov Role of Integrable Models in the Development of Mathematics S T Yau The Current State and Prospects of Geometry and Nonlinear Differential Equations A Connes Noncommutative Geometry S Smale Theory of Computation V Jones Knots in Mathematics and Physics G Faltings Recent Progress in Diophantine Geometry

**Collected Papers of John Milnor** John Willard Milnor, 1994      **Differential Equations and Dynamical Systems**

Antonio Galves, Jack K. Hale, Carlos Rocha, 2002-01-01 This volume contains contributed papers authored by participants of a Conference on Differential Equations and Dynamical Systems which was held at the Instituto Superior Tecnico Lisbon Portugal The conference brought together a large number of specialists in the area of differential equations and dynamical systems and provided an opportunity to celebrate Professor Waldyr Oliva's 70th birthday honoring his fundamental contributions to the field The volume constitutes an overview of the current research over a wide range of topics extending from qualitative theory for ordinary partial or functional differential equations to hyperbolic dynamics and ergodic theory

**Free Energy and Equilibrium States for Families of Interval Maps** Neil Dobbs, Mike Todd, 2023-06-22 View the abstract      **Numerical Methods for the Solution of Ill-Posed Problems** A.N. Tikhonov, A. Goncharsky, V.V. Stepanov, Anatoly G. Yagola, 2013-03-09 Many problems in science technology and engineering are posed in the form of operator equations of the first kind with the operator and RHS approximately known But such problems often turn out to be ill posed having no solution or a non unique solution and or an unstable solution Non existence and non uniqueness can usually be overcome by settling for generalised solutions leading to the need to develop regularising algorithms The theory of ill posed problems has advanced greatly since A N Tikhonov laid its foundations the Russian original of this book 1990 rapidly becoming a classical monograph on the topic The present edition has been completely updated to consider linear ill posed problems with or without a priori constraints non negativity monotonicity convexity etc Besides the theoretical material the book also contains a FORTRAN program library Audience Postgraduate students of physics mathematics chemistry economics engineering Engineers and scientists interested in data processing and the theory of ill posed problems

**Collected Works of William P. Thurston with Commentary** Benson Farb, David Gabai, Steven P.

Kerckhoff, 2023-06-08 William Thurston's work has had a profound influence on mathematics He connected whole mathematical subjects in entirely new ways and changed the way mathematicians think about geometry topology foliations group theory dynamical systems and the way these areas interact His emphasis on understanding and imagination in

mathematical learning and thinking are integral elements of his distinctive legacy This four part collection brings together in one place Thurston s major writings many of which are appearing in publication for the first time Volumes I III contain commentaries by the Editors Volume IV includes a preface by Steven P Kerckhoff Volume III contains William Thurston s papers on dynamics and computer science and papers written for general audiences Additional miscellaneous papers are also included such as his 1967 New College undergraduate thesis which foreshadows his later work *Geometric Pressure for Multimodal Maps of the Interval* Feliks Przytycki, Juan Rivera-Letelier, 2019-06-10 This paper is an interval dynamics counterpart of three theories founded earlier by the authors S Smirnov and others in the setting of the iteration of rational maps on the Riemann sphere the equivalence of several notions of non uniform hyperbolicity Geometric Pressure and Nice Inducing Schemes methods leading to results in thermodynamical formalism The authors work in a setting of generalized multimodal maps that is smooth maps  $f$  of a finite union of compact intervals  $I$  in  $\mathbb{R}$  into  $\mathbb{R}$  with non flat critical points such that on its maximal forward invariant set  $K$  the map  $f$  is topologically transitive and has positive topological entropy They prove that several notions of non uniform hyperbolicity of  $f|_K$  are equivalent including uniform hyperbolicity on periodic orbits TCE all periodic orbits in  $K$  hyperbolic repelling Lyapunov hyperbolicity and exponential shrinking of pull backs They prove that several definitions of geometric pressure  $P_t$  that is pressure for the map  $f|_K$  and the potential  $t \log f$  give the same value including pressure on periodic orbits tree pressure variational pressures and conformal pressure Finally they prove that provided all periodic orbits in  $K$  are hyperbolic repelling the function  $P_t$  is real analytic for  $t$  between the condensation and freezing parameters and that for each such  $t$  there exists unique equilibrium and conformal measure satisfying strong statistical properties *Chaotic Maps, Fractals, and Rapid Fluctuations* Liangliang Li, Yu Huang, Goong Chen, 2025-07-15 This book was developed from lecture notes for an introductory graduate course and provides an essential introduction to chaotic maps in finite dimensional spaces Furthermore the authors show how to apply this theory to infinite dimensional systems corresponding to partial differential equations to study chaotic vibration of the wave equation subject to various types of nonlinear boundary conditions The book provides background on chaos as a highly interesting nonlinear phenomenon and explains why it is one of the most important scientific findings of the past three decades In addition the book covers key topics including one dimensional dynamical systems bifurcations general topological symbolic dynamical systems and fractals The authors also show a class of infinite dimensional nonlinear dynamical systems which are reducible to interval maps plus rapid fluctuations of chaotic maps This second edition includes updated and expanded chapters as well as additional problems

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