

**Iterated Maps  
on the Interval as  
Dynamical Systems**

Pierre Collet  
Jean-Pierre Eckmann

# Iterated Maps On The Interval As Dynamical Systems

**BM King**

## Iterated Maps On The Interval As Dynamical Systems:

**Iterated Maps on the Interval as Dynamical Systems** Pierre Collet,J.-P. Eckmann,2009-08-25 Iterations of continuous maps of an interval to itself serve as the simplest examples of models for dynamical systems These models present an interesting mathematical structure going far beyond the simple equilibrium solutions one might expect If in addition the dynamical system depends on an experimentally controllable parameter there is a corresponding mathematical structure revealing a great deal about interrelations between the behavior for different parameter values This work explains some of the early results of this theory to mathematicians and theoretical physicists with the additional hope of stimulating experimentalists to look for more of these general phenomena of beautiful regularity which oftentimes seem to appear near the much less understood chaotic systems Although continuous maps of an interval to itself seem to have been first introduced to model biological systems they can be found as models in most natural sciences as well as economics Iterated Maps on the Interval as Dynamical Systems is a classic reference used widely by researchers and graduate students in mathematics and physics opening up some new perspectives on the study of dynamical systems

[Iterated Maps on the Interval as Dynamical Systems](#) Pierre Collet,Jean Pierre Eckmann,1986 *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

[Chaos and Nonlinear Dynamics](#) Robert C. Hilborn,2000 This book introduces readers to the full range of current and background activity in the rapidly growing field of nonlinear dynamics It uses a step by step introduction to dynamics and geometry in state space to help in understanding nonlinear dynamics and includes a thorough treatment of both differential equation models and iterated map models as well as a derivation of the famous Feigenbaum numbers It is the only introductory book available that includes the important field of pattern formation and a survey of the controversial questions of quantum chaos This second edition has been restructured for easier use and the extensive annotated references are updated through January 2000 and include many web sites for a number of the major nonlinear dynamics research centers With over 200 figures and diagrams analytic and computer exercises this book is a necessity for both the classroom and the lab

**Collected Papers of John Milnor** John Willard Milnor,2012 This book the sixth in the series Collected Papers of John Milnor contains all of Milnor's work on Real and Complex Dynamics from 1953 to 1999 plus one paper from 2000 These papers provide important and fundamental material in real and complex dynamical systems Many of them have become classics in the field Several questions addressed in them continue to be important in current research Having them together in the same volume gives readers a taste of all the great mathematics developed by the author in the different areas of dynamics In some cases there

have been minor corrections or clarifications as well as references to more recent work which answers questions raised by the author John Milnor's papers are accompanied by introductions that put them in perspective with respect to the current state of the field. There is also an index to facilitate searching the book for specific topics Fractal Geometry and Applications: A Jubilee of Benoit Mandelbrot Michel Laurent Lapidus, Machiel Van Frankenhuyzen, 2004 This volume offers an excellent selection of cutting edge articles about fractal geometry covering the great breadth of mathematics and related areas touched by this subject. Included are rich survey articles and fine expository papers. The high quality contributions to the volume by well known researchers including two articles by Mandelbrot provide a solid cross section of recent research representing the richness and variety of contemporary advances in and around fractal geometry. In demonstrating the vitality and diversity of the field this book will motivate further investigation into the many open problems and inspire future research directions. It is suitable for graduate students and researchers interested in fractal geometry and its applications. This is a two part volume Part 1 covers analysis number theory and dynamical systems Part 2 multifractals probability and statistical mechanics and applications Advances in Discrete Dynamical Systems Saber Elaydi, 2009 This volume contains the proceedings of talks presented at the 11th International Conference on Difference Equations and Applications ICDEA 2006 ICDEA 2006 was held on July 2006 in Kyoto at the 15th MSJ International Research Institute. These proceedings comprise new results at the leading edge of many areas in difference equations and discrete dynamical systems and their various applications to the sciences engineering physics and economics **European Conference on Iteration Theory** Claudi Alsina, 1989 Bollettino della Unione matematica italiana, 1986 Colloque Hubert Delange, 1983 Report, 1984 **Archives of Mechanics**, 1998 **Nanjing da xue xue bao shu xue ban nian kan**, 2000 **Fundamenta Mathematicae**, 2012 **Proceedings**, 1992 **Reviews in Global Analysis, 1980-86 as Printed in Mathematical Reviews**, 1988 **Il Nuovo Cimento Della Società Italiana Di Fisica**, 1987 **The American Mathematical Monthly**, 1991 Annales Polonici Mathematici, 1996 Report TW. Mathematisch Centrum (Amsterdam, Netherlands). Afdeling Toegepaste Wiskunde, 1982

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