

Applied Mathematical Sciences

Ying-Cheng Lai
Tamás Tél

Transient Chaos

Complex Dynamics in Finite Time Scales

 Springer

Transient Chaos Complex Dynamics On Finite Time Scales Applied Mathematical Sciences

A.J. Lichtenberg, M.A. Lieberman



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Transient Chaos Ying-Cheng Lai, Tamás Tél, 2011-02-26 The aim of this Book is to give an overview based on the results of nearly three decades of intensive research of transient chaos One belief that motivates us to write this book is that transient chaos may not have been appreciated even within the nonlinear science community let alone other scientific disciplines

Extremes and Recurrence in Dynamical Systems Valerio Lucarini, Davide Faranda, Ana Cristina Gomes Monteiro Moreira de Freitas, Jorge Miguel Milhazes de Freitas, Mark Holland, Tobias Kuna, Matthew Nicol, Mike Todd, Sandro Vaienti, 2016-03-28 Written by a team of international experts Extremes and Recurrence in Dynamical Systems presents a unique point of view on the mathematical theory of extremes and on its applications in the natural and social sciences Featuring an interdisciplinary approach to new concepts in pure and applied mathematical research the book skillfully combines the areas of statistical mechanics probability theory measure theory dynamical systems statistical inference geophysics and software application Emphasizing the statistical mechanical point of view the book introduces robust theoretical embedding for the application of extreme value theory in dynamical systems Extremes and Recurrence in Dynamical Systems also features A careful examination of how a dynamical system can serve as a generator of stochastic processes Discussions on the applications of statistical inference in the theoretical and heuristic use of extremes Several examples of analysis of extremes in a physical and geophysical context A final summary of the main results presented along with a guide to future research projects An appendix with software in Matlab programming language to help readers to develop further understanding of the presented concepts Extremes and Recurrence in Dynamical Systems is ideal for academics and practitioners in pure and applied mathematics probability theory statistics chaos theoretical and applied dynamical systems statistical mechanics geophysical fluid dynamics geosciences and complexity science VALERIO LUCARINI PhD is Professor of Theoretical Meteorology at the University of Hamburg Germany and Professor of Statistical Mechanics at the University of Reading UK DAVIDE FARANDA PhD is Researcher at the Laboratoire des science du climat et de l'environnement IPSL CEA Saclay Université Paris Saclay Gif sur Yvette France ANA CRISTINA GOMES MONTEIRO MOREIRA DE FREITAS PhD is Assistant Professor in the Faculty of Economics at the University of Porto Portugal JORGE MIGUEL MILHAZES DE FREITAS PhD is Assistant Professor in the Department of Mathematics of the Faculty of Sciences at the University of Porto Portugal MARK HOLLAND PhD is Senior Lecturer in Applied Mathematics in the College of Engineering Mathematics and Physical Sciences at the University of Exeter UK TOBIAS KUNA PhD is Associate Professor in the Department of Mathematics and Statistics at the University of Reading UK MATTHEW NICOL PhD is Professor of Mathematics at the University of Houston USA MIKE TODD PhD is Lecturer in the School of Mathematics and Statistics at the University of St Andrews Scotland SANDRO VAIENTI PhD is Professor of Mathematics at the University of Toulon and Researcher at the Centre de Physique Théorique France

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 *Partial Differential Equations in Ecology* Sergei Petrovski, 2021-03-17 Partial differential equations PDEs have been used in theoretical ecology research for more than eighty years Nowadays along with a variety of different mathematical techniques they remain as an efficient widely used modelling framework as a matter of fact the range of PDE applications has even become broader This volume presents a collection of case studies where applications range from bacterial systems to population dynamics of human riots **Handbook of Applications of Chaos Theory** Christos H. Skiadas, Charilaos Skiadas, 2017-12-19 In addition to explaining and modeling unexplored phenomena in nature and society chaos uses vital parts of nonlinear dynamical systems theory and established chaotic theory to open new frontiers and fields of study Handbook of Applications of Chaos Theory covers the main parts of chaos theory along with various applications to diverse areas Expert contributors from around the world show how chaos theory is used to model unexplored cases and stimulate new applications Accessible to scientists engineers and practitioners in a variety of fields the book discusses the intermittency route to chaos evolutionary dynamics and deterministic chaos and the transition to phase synchronization chaos It presents important contributions on strange attractors self exciting and hidden attractors stability theory Lyapunov exponents and chaotic analysis It explores the state of the art of chaos in plasma physics plasma harmonics and overtone coupling It also describes flows and turbulence chaotic interference versus decoherence and an application of microwave networks to the simulation of quantum graphs The book proceeds to give a detailed presentation of the chaotic rogue and noisy optical dissipative solitons parhelic like circle and chaotic light scattering and interesting forms of the hyperbolic prism the Poincaré disc and foams It also covers numerous application areas from the analysis of blood pressure data and clinical digital pathology to chaotic pattern recognition to economics to musical arts and research *Applied Mechanics Reviews*, 1987 *Multiple Time Scale Dynamics* Christian Kuehn, 2015-02-25 This book provides an introduction to dynamical systems with multiple time scales The approach it takes is to provide an overview of key areas particularly topics that are less available in the introductory form The broad range of topics included makes it accessible for students and researchers new to the field to gain a quick and thorough overview The first of its kind this book merges a wide variety of different mathematical techniques into a more unified framework The book is highly illustrated with many examples and exercises and an extensive bibliography The target audience of this book are senior undergraduates graduate students as well as researchers interested in using the multiple time scale dynamics theory in nonlinear science

either from a theoretical or a mathematical modeling perspective *Physics Briefs* ,1994 **Scientific and Technical Aerospace Reports** ,1988 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database

Regular and Chaotic Dynamics A.J. Lichtenberg,M.A. Lieberman,2013-03-14 What s in a name The original title of our book Regular and Stochastic Motion was chosen to emphasize Hamiltonian dynamics and the physical motion of bodies The new edition is more evenhanded with considerably more discussion of dissipative systems and dynamics not involving physical motion To reflect this partial change of emphasis we have substituted the more general terms in our title The common usage of the new terms clarifies the emphasis of the book The main change in the book has been to expand the sections on dissipative dynamics including discussion of renormalization circle maps intermittency crises transient chaos multifractals reconstruction and coupled mapping systems These topics were either mainly in the mathematical literature or essentially unstudied when our first edition was written The volume of work in these areas has surpassed that in Hamiltonian dynamics within the past few years We have also made changes in the Hamiltonian sections adding many new topics such as more general transformation and stability theory connected stochasticity in two dimensional maps converse KAM theory new topics in diffusion theory and an approach to equilibrium in many dimensions Other sections such as mapping models have been revised to take into account new perspectives We have also corrected a number of misprints and clarified various arguments with the help of colleagues and students some of whom we acknowledge below We have again chosen not to treat quantum chaos partly due to our own lack of acquaintance with the subject

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