Bruce P. Kitchens

Symbolic Dynamics

One-sided, Two-sided and Countable State Markov Shifts









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Dynamics and Applications F. Blanchard, A. Maass, A. Nogueira, 2000-06-29 This book is devoted to recent developments in symbolic dynamics and it comprises eight chapters The first two are concerned with the study of symbolic sequences of low complexity the following two introduce high complexity systems The later chapters go on to deal with more specialised topics including ergodic theory number theory and one dimensional dynamics **Ergodic Theory - Finite and Infinite**, Thermodynamic Formalism, Symbolic Dynamics and Distance Expanding Maps Mariusz Urbański, Mario Roy, Sara Munday, 2021-11-22 The book contains a detailed treatment of thermodynamic formalism on general compact metrizable spaces Topological pressure topological entropy variational principle and equilibrium states are presented in detail Abstract ergodic theory is also given a significant attention Ergodic theorems ergodicity and Kolmogorov Sinai metric entropy are fully explored Furthermore the book gives the reader an opportunity to find rigorous presentation of thermodynamic formalism for distance expanding maps and in particular subshifts of finite type over a finite alphabet It also provides a fairly complete treatment of subshifts of finite type over a countable alphabet Transfer operators Gibbs states and equilibrium states are in this context introduced and dealt with Their relations are explored All of this is applied to fractal geometry centered around various versions of Bowen's formula in the context of expanding conformal repellors limit sets of conformal iterated function systems and conformal graph directed Markov systems A unique introduction to iteration of rational functions is given with emphasize on various phenomena caused by rationally indifferent periodic points Also a fairly full account of the classical theory of Shub's expanding endomorphisms is given it does not have a book presentation in English language mathematical literature **Developments in Language Theory** Igor Potapov, 2015-07-17 This book constitutes the proceedings of the 19th International Conference on Developments in Language Theory DLT 2015 held in Liverpool UK The 31 papers presented together with 5 invited talks were carefully reviewed and selected from 54 submissions Its scope is very general and includes among others the following topics and areas combinatorial and algebraic properties of words and languages grammars acceptors and transducers for strings trees graphs arrays algebraic theories for automata and languages codes efficient text algorithms symbolic dynamics decision problems relationships to complexity theory and logic picture description and analysis polyominoes and bidimensional patterns cryptography concurrency cellular automata bio Symbolic Dynamics for Nonuniformly Hyperbolic Maps with inspired computing and quantum computing Singularities in High Dimension Ermerson Araujo, Yuri Lima, Mauricio Poletti, 2024-10-23 View the abstract Combinatorics, Words and Symbolic Dynamics Valérie Berthé, Michel Rigo, 2016-02-26 Internationally recognised researchers look at developing trends in combinatorics with applications in the study of words and in symbolic dynamics They explain the important concepts providing a clear exposition of some recent results and emphasise the emerging connections between these different fields Topics include combinatorics on words pattern avoidance graph theory tilings and theory of computation multidimensional subshifts discrete dynamical systems ergodic theory numeration systems dynamical

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