

Mathematics Subject Classification

Spectral Theory of Dynamical Systems

Second Edition

BY
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AND
ALEXANDER A. YAKOVLEV

 Springer

Spectral Theory Of Dynamical Systems

Martine Queffélec



Spectral Theory Of Dynamical Systems:

Spectral Theory of Dynamical Systems Mahendra Nadkarni, 2020-08-29 This book discusses basic topics in the spectral theory of dynamical systems. It also includes two advanced theorems: one by H. Helson and W. Parry and another by B. Host. Moreover, Ornstein's family of mixing rank one automorphisms is given with construction and proof. Systems of imprimitivity and their relevance to ergodic theory are also examined. Baire category theorems of ergodic theory scattered in literature are discussed in a unified way in the book. Riesz products are introduced and applied to describe the spectral types and eigenvalues of rank one automorphisms. Lastly, the second edition includes a new chapter: Calculus of Generalized Riesz Products which discusses the recent work connecting generalized Riesz products, Hardy classes, Banach's problem of simple Lebesgue spectrum in ergodic theory and flat polynomials.

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Nadkarni, 2012-11-05 This book treats some basic topics in the spectral theory of dynamical systems where by a dynamical system we mean a measure space on which a group of automorphisms acts preserving the sets of measure zero. The treatment is at a general level but even here two theorems which are not on the surface: one due to H. Helson and W. Parry and the other due to B. Host are presented. Moreover, non-singular automorphisms are considered and systems of imprimitivity are discussed and they are used to describe Riesz products suitably generalised. The spectral types and eigenvalues of rank one automorphisms. On the other hand, topics such as spectral characterisations of various mixing conditions which can be found in most texts on ergodic theory and also the spectral theory of Gauss Dynamical Systems which is very well presented in Cornfeld, Fomin and Sinai's book on Ergodic Theory are not treated in this book. A number of discussions and correspondence on email with El Abdalaoui El Houcein made possible the presentation of mixing rank one construction of D. S. Ornstein. I am deeply indebted to G. R. Goodson. He has edited the book and suggested a number of corrections and improvements in both content and language.

Spectral Theory of Dynamical Systems Nadkarni, 2012-12-06

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Bernd Aulbach, Fritz Colonius, 1996 This volume consists of six articles covering different facets of the mathematical theory of

dynamical systems The topics range from topological foundations through invariant manifolds decoupling perturbations and computations to control theory All contributions are based on a sound mathematical analysis Some of them provide detailed proofs while others are of a survey character In any case emphasis is put on motivation and guiding ideas Many examples are included The papers of this volume grew out of a tutorial workshop for graduate students in mathematics held at the University of Augsburg Each of the contributions is self contained and provides an in depth insight into some topic of current interest in the mathematical theory of dynamical systems The text is suitable for courses and seminars on a graduate student level

Spectral Theory of Nonautonomous Dynamical Systems and Applications Thai Son Doan, 2024-12-27 The main challenge in the study of nonautonomous phenomena is to understand the very complicated dynamical behaviour both as a scientific and mathematical problem The theory of nonautonomous dynamical systems has experienced a renewed and steadily growing interest in the last twenty years stimulated also by synergetic effects of disciplines which have developed relatively independent for some time such as topological skew product random dynamical systems finite time dynamics and control systems The book provides new insights in many aspects of the qualitative theory of nonautonomous dynamical systems including the spectral theory the linearization theory the bifurcation theory The book first introduces several important spectral theorem for nonautonomous differential equations including the Lyapunov spectrum Sacker Sell spectrum and finite time spectrum The author also establishes the smooth linearization and partial linearization for nonautonomous differential equations in application part Then the second part recalls the multiplicative ergodic theorem for random dynamical systems and discusses several explicit formulas in computing the Lyapunov spectrum for random dynamical systems generated by linear stochastic differential equations and random difference equations with random delay In the end the Pitchfork bifurcation and Hopf bifurcation with additive noise are investigated in terms of change of the sign of Lyapunov exponents and loss of topological equivalence This book might be appealing to researchers and graduate students in the field of dynamical systems stochastic differential equations ergodic theory

Mathematics of Complexity and Dynamical Systems Robert A. Meyers, 2011-10-05 Mathematics of Complexity and Dynamical Systems is an authoritative reference to the basic tools and concepts of complexity systems theory and dynamical systems from the perspective of pure and applied mathematics Complex systems are systems that comprise many interacting parts with the ability to generate a new quality of collective behavior through self organization e g the spontaneous formation of temporal spatial or functional structures These systems are often characterized by extreme sensitivity to initial conditions as well as emergent behavior that are not readily predictable or even completely deterministic The more than 100 entries in this wide ranging single source work provide a comprehensive explication of the theory and applications of mathematical complexity covering ergodic theory fractals and multifractals dynamical systems perturbation theory solitons systems and control theory and related topics Mathematics of Complexity and Dynamical Systems is an essential reference for all those interested in mathematical complexity from

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