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Lyapunov Exponents

By Ludwig Arnold

Springer Mrz 1986, 1986. Taschenbuch. Book Condition: Neu. 235x155x20 mm. This item is printed on demand - Print on Demand Titel. Neuware - Since the predecessor to this volume (LNM 1186, Eds. L. Arnold, V. Wihstutz) appeared in 1986, significant progress has been made in the theory and applications of Lyapunov exponents - one of the key concepts of dynamical systems - and in particular, pronounced shifts towards nonlinear and infinite-dimensional systems and engineering applications are observable. This volume opens with an introductory survey article (Arnold/Crauel) followed by 26 original (fully refereed) research papers, some of which have in part survey character. From the Contents: L. Arnold, H. Crauel: Random Dynamical Systems.- I.Ya. Goldscheid: Lyapunov exponents and asymptotic behaviour of the product of random matrices.- Y. Peres: Analytic dependence of Lyapunov exponents on transition probabilities.- O. Knill: The upper Lyapunov exponent of $Sl(2, \mathbb{R})$ cocycles: Discontinuity and the problem of positivity.- Yu.D. Latushkin, A.M. Stepin: Linear skew-product flows and semigroups of weighted composition operators.- P. Baxendale: Invariant measures for nonlinear stochastic differential equations.- Y. Kifer: Large deviations for random expanding maps.- P. Thiellien: Generalisation du theoreme de Pesin pour l'entropie.- S.T. Ariaratnam, W.-C. Xie: Lyapunov exponents in stochastic structural mechanics.- F...



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