



## Lyapunov Exponents: Proceedings of a Conference Held in Oberwolfach, May 28 - June 2, 1990

By -

Springer. Paperback. Book Condition: New. Perfect Paperback. 368 pages. Dimensions: 9.2in. x 6.1in. x 0.8in. 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...

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