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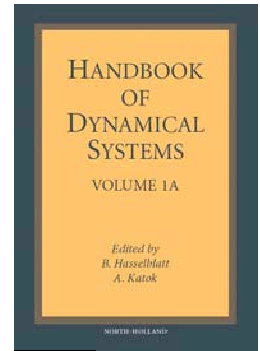
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Handbook of Dynamical Systems: Volume 1A

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Description

Volumes 1A and 1B.

These volumes give a comprehensive survey of dynamics written by specialists in the various subfields of dynamical systems. The presentation attains coherence through a major introductory survey by the editors that organizes the entire subject, and by ample cross-references between individual surveys.

The volumes are a valuable resource for dynamicists seeking to acquaint themselves with other specialties in the field, and to mathematicians active in other branches of mathematics who wish to learn about contemporary ideas and results dynamics. Assuming only general mathematical knowledge the surveys lead the reader towards the current state of research in dynamics.

Volume 1B will appear around end 2003.

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Principal structures (B. Hasselblatt and A. Katok).

Entropy, Isomorphism and Equivalence in Ergodic Theory (J.-P. Thouvenot).

Hyperbolic dynamical systems (B. Hasselblatt).

Invariant measures for hyperbolic dynamical systems (N. Chernov).

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Ergodic theory and dynamics of G -spaces (with special emphasis on rigidity phenomena (R. Feres, A. Katok).

Symbolic and algebraic dynamical systems (D. Lind, K. Schmidt).

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Random walks on groups and random transformations (A. Furman).

Rational billiards and flat structures (H. Masur, S. Tabachnikov).

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