



## Dimension Theory for Ordinary Differential Equations

By Vladimir A. Boichenko

Vieweg & Teubner Verlag Dez 2005, 2005. Taschenbuch. Condition: Neu. This item is printed on demand - Print on Demand Neuware - The book is concerned with upper bounds for the Hausdorff and Fractal dimensions of flow invariant compact sets in Euclidean space and on Riemannian manifolds and the application of such bounds to global stability investigations of equilibrium points. The dimension estimates are formulated in terms of the eigenvalues of the symmetric part of the linearized vector field by including Lyapunov functions into the contraction conditions for outer Hausdorff measures. Various types of local, global and uniform Lyapunov exponents are introduced. On the base of such exponents the Lyapunov dimension of a set is defined and the Kaplan-Yorke formula is discussed. Upper estimates for the topological entropy are derived using Lyapunov functions and adapted Lozinskii norms. 448 pp. Englisch.

DOWNLOAD



READ ONLINE  
[ 8.25 MB ]

### Reviews

*Good e book and valuable one. Better then never, though i am quite late in start reading this one. You are going to like how the article writer publish this publication.*

-- **Malcolm Block**

*Thorough guide for pdf enthusiasts. Better then never, though i am quite late in start reading this one. Its been printed in an remarkably simple way which is only soon after i finished reading through this pdf by which really altered me, change the way i believe.*

-- **Dr. Rowena Wiegand**