

Zeitschrift: Helvetica Physica Acta
Band: 71 (1998)
Heft: 4

Buchbesprechung: Exotic attractors from Liapunov stability to riddled basins [J. Buescu]
Autor: [s.n.]

Nutzungsbedingungen

Die ETH-Bibliothek ist die Anbieterin der digitalisierten Zeitschriften. Sie besitzt keine Urheberrechte an den Zeitschriften und ist nicht verantwortlich für deren Inhalte. Die Rechte liegen in der Regel bei den Herausgebern beziehungsweise den externen Rechteinhabern. [Siehe Rechtliche Hinweise.](#)

Conditions d'utilisation

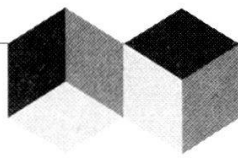
L'ETH Library est le fournisseur des revues numérisées. Elle ne détient aucun droit d'auteur sur les revues et n'est pas responsable de leur contenu. En règle générale, les droits sont détenus par les éditeurs ou les détenteurs de droits externes. [Voir Informations légales.](#)

Terms of use

The ETH Library is the provider of the digitised journals. It does not own any copyrights to the journals and is not responsible for their content. The rights usually lie with the publishers or the external rights holders. [See Legal notice.](#)

Download PDF: 29.03.2025

ETH-Bibliothek Zürich, E-Periodica, <https://www.e-periodica.ch>



DYNAMICAL SYSTEMS • ERGODIC THEORY • CHAOS

PM 153 • Progress in Mathematics

J. Buescu, Institut Superior Técnico, Lisboa, Portugal

Exotic Attractors From Liapunov Stability to Riddled Basins

1997. 142 pages. Hardcover
DM 78.-/öS 570.-/sFr. 68.-
ISBN 3-7643-5793-2



This book on attractors in dynamical systems will appeal primarily to researchers and advanced postgraduate students working in the area of dynamical systems. However, since it is self-contained, it may be used profitably by anyone wishing a general but mathematically rigorous introduction to the concepts and ideas of attractors in dynamics.

The study is divided roughly into two parts, with a generic introduction to the concept of attractor in dynamics preceding a description of new results on two research problems. The first part is gentle but rigorous; several different notions of attractor are defined and compared, and the finer points are thoroughly illustrated by examples and counterexamples. The second part of the book deals with two different problems in discrete dynamics to which the author has contributed. One is the characterization of the dynamics on stable w -limit sets with infinitely many components; this is shown to be an adding machine, which has interesting implications for dynamics at a fundamental level. The second problem is the study of the transverse stability of attractors on an invariant submanifold. The author uses methods from differentiable dynamics and ergodic theory to construct the spectrum of normal Liapunov exponents, and shows that the relevant phenomena, e.g. riddled basins, are characterized by this spectrum.

For orders originating from all over the world except USA and Canada:
Birkhäuser Verlag AG
P.O. Box 133
CH-4010 Basel/Switzerland
Fax: +41/61/205 07 92
e-mail: orders@birkhauser.ch

For orders originating in the USA and Canada:
Birkhäuser
333 Meadowland Parkway
USA-Secaurus, NJ 07094-2491
Fax: +1 201 348 4033
e-mail: orders@birkhauser.com

Birkhäuser



Birkhäuser Verlag AG
Basel · Boston · Berlin

VISIT OUR HOMEPAGE <http://www.birkhauser.ch>