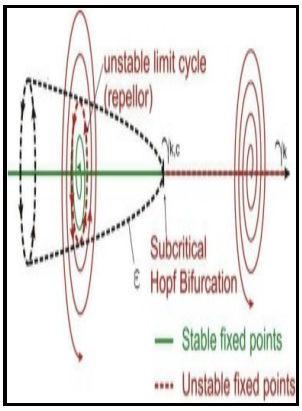
Elements of applied bifurcation theory

Springer - Elements of Applied Bifurcation Theory



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Elements of applied bifurcation theory (2004 edition)

A moderate mathematical background is assumed, and, whenever possible, only elementary mathematical tools are used.

Review of ``Elements of Applied Bifurcation Theory'' by Yu. A. Kuznetsov

Kuznetsov Alan Champneys Department of Engineering Mathematics University of Bristol Wed Aug 23 18:39:35 BST 1995 Springer-Verlag Applied Mathematical Sciences Vol 112 If you had a graduate or masters student who wanted to learn the core theory of dynamical systems relevant for applications, what single book would you recommend? These both give some historical background sometimes redressing imbalances with regard to the Russian literature and also provide references to recent results which are beyond the scope of the book.

Elements of applied bifurcation theory (1995 edition)

The publication includes papers on aeroacoustics, aerodynamics, computational fluid dynamics, air traffic control design, nonlinear filtering, atmospheric flight mechanics, propulsion and combustion, navigation, guidance, stability and control, neural networks, optimization, computer security and cryptography. The analytical apparatus developed in the book is applied to the analysis of oscillation of various control systems, pendulum-like systems and those of synchronization.

Elements of Applied Bifurcation Theory

Kuznetsov Publisher: Cambridge University Press ISBN: 9781108695145 Category: Mathematics Page: View: 165 This book combines a comprehensive state-of-the-art analysis of bifurcations of discrete-time dynamical systems with concrete instruction on implementations and example applications in the free MATLAB® software MatContM developed by the authors. The style of the book is that of a teaching manual. Kuznetsov , Elements of Applied Bifurcation Theory , 3rd ed.

Elements of Applied Bifurcation Theory by Yuri A. Kuznetsov

The reader is given all the tools simplified methods for calculating center-manifold and normal-form coefficients, symbolic algebra routines, numerical continuation methods and software for calculating bifurcation diagrams for themselves. The pictorial approach is especially useful when

providing a comprehensive catalogue of phase portraits near codim 2 local bifurcations in Chapters 8 and 9. New York , Springer , 1995.

Elements of Applied Bifurcation Theory by Yuri A. Kuznetsov

. The latter omission is deliberate; instead of methods based on averaging, the approach taken is that of local bifurcation analysis allied to specifically constructed numerical methods.

Review of ``Elements of Applied Bifurcation Theory'' by Yu. A. Kuznetsov

There is also no mention of non-smooth dynamics, very little on the theory of maps of the interval, only a basic introduction to dynamics with symmetry, and not much on Melnikov's method which, for time-independent perturbations, is given the historically more accurate name of the Pontryagin method.

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