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Bifurcations And Chaos In Piecewise

Chaos and intermittency are studied for the system of globally coupled, complex Ginzburg–Landau equations governing the dynamics of extended, two-dimensional anisotropic systems near an oscillatory (Hopf) instability of a basic state with two pairs of counterpropagating, oblique traveling waves.

International Journal of Bifurcation and Chaos | Vol 31, No 01

Periodic Orbits and Chaos. As a system parameter is varied, chaos can appear via an infinite sequence of period doubling bifurcations of periodic orbits. This is known as the Feigenbaum phenomenon or the period doubling route to chaos (Ott, 1993).

Periodic orbit - Scholarpedia

Chua's circuit (also known as a Chua circuit) is a simple electronic circuit that exhibits classic chaotic behavior. This means roughly that it is a "nonperiodic oscillator"; it produces an oscillating waveform that, unlike an ordinary electronic oscillator, never "repeats".It was invented in 1983 by Leon O. Chua, who was a visitor at Waseda University in Japan at that time.

Chua's circuit - Wikipedia

Examines such topics as perturbation and computational methods, symbolic manipulation, dynamic stability, local and global methods, bifurcations, chaos, etc; 99% of authors who answered a survey reported that they would definitely publish or probably publish in the journal again

Nonlinear Dynamics | Home

A dynamical system is a manifold M called the phase (or state) space endowed with a family of smooth evolution functions Φ_t that for any element $t \in T$, the time, map a point of the phase space back into the phase space. The notion of smoothness changes with applications and the type of manifold. There are several choices for the set T .When T is taken to be the reals, the dynamical system ...

Dynamical system - Wikipedia

In addition, homoclinic chaos is manifested via both saddle-focus and focus-focus bifurcations as well as a Belyakov point. An actual computation of global invariant manifolds near a focus-focus homoclinic bifurcation is also presented to enlavel a multiplicity of wave solutions in the model.

Dynamical Systems authors/titles "new.DS"

The series of bifurcations which occurs before the input amplitude has reached this level is said to be the period-doubling route to chaos, and is characteristic of many nonlinear systems. The Duffing oscillator can revert back to having a periodic solution if the driving amplitude is greater than the maximum value shown in Fig. 8.6 (Moon, 1992).

Nonlinear System - an overview | ScienceDirect Topics

Chaos exists in mathematical models [] and other aspects such as the macroeconomic model [], the breaking of topological supersymmetry [], etc. Chaotic systems are divided into the conservative system and dissipative system [].The Lyapunov dimensions of dissipative chaotic systems are fractional; for instance, if the system's full dimension is three, the Lyapunov dimension is slightly higher ...

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Nonlinearity - IOPscience

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Nanoscale Memristor Device as Synapse in Neuromorphic ...

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MSC 2010 Classification Codes - R

Complex bifurcations in fast-slow climate-ecosystem dynamics. Ivan Sudakov*, University of Dayton, Department of Physics (1163-37-1401) 2:45 p.m. Adaptive specialization in multi-species predator-prey systems. Oyita Udiani*, Virginia Commonwealth University (1163-92-1682) 3:15 p.m.

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which is referred to as the singular value decomposition. In the preceding equation, $*$ denotes the conjugate transpose. The column vectors u_j and v_j of U and V are called the left and right singular vectors, respectively. Both of the singular vectors can be determined up to a complex scalar of magnitude one (i.e., $e^{i\theta}$, where $\theta \in [0, 2\pi]$). Given a rectangular matrix A , we can ...

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We then describe how irreversible entropy growth can appear from reversible dynamics, learning the basics of dynamical chaos. We shall understand that the entropy is not the property of a system, but of our knowledge of the system and re-tell the story of statistical physics using the language of information theory, which shows its universality.

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