

# Dynamics of nonlinear waves in dissipative systems - reduction, bifurcation and stability

Longman - Three

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**Nonlinear Dynamics @ FU Berlin: Prof. Dr. Bernold Fiedler**

The GALI method for dissipative systems We have already mentioned that the GALI has been developed as an indicator of chaos for Hamiltonian systems, and its archetypal treatment generally does not work in the presence of dissipation and attractors.

**Dissipative system**

In: Evolution of Spontaneous Structures in Dissipative Continuous Systems, F. Attractors of weakly dissipative OM systems figure a shows a diagram as a function of the detuning  $\Delta$  and the drive power P which confirms the existence of various attractors in the phase space of a weakly dissipative OM system.

**Center manifold**

Less common examples include , , , and the. Attractors The Liouville's theorem guarantees that the time evolution of Hamiltonian systems preserves volumes in the phase space.

**Publications**

Analysis 94 1986 , 59-81. Its publishing company, IOP Publishing, is a world leader in professional scientific communications.

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