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Invariant manifold - Wikipedia

In dynamical systems, a branch of mathematics, an invariant manifold is a topological manifold that is invariant under the action of the dynamical system. Examples include the slow manifold, center manifold, stable manifold, unstable manifold, subcenter manifold and inertial manifold.

Invariant manifolds - University of Lethbridge

Since invariant manifolds are differentiable manifolds, then at each point in a d -dimensional manifold we can write $z = z(y)$; where, again, y is a set of d of the phase-space coordinates, and z represents the remaining $n - d$ coordinates. Take a time derivative of this equation with respect to time. According to the chain rule, $dz/dt = d/dt(z(y)) = dz/dy dy/dt$. The time derivatives are just the

Normally hyperbolic invariant manifold - Wikipedia

A normally hyperbolic invariant manifold (NHIM) is a natural generalization of a hyperbolic fixed point and a hyperbolic set. The difference can be described heuristically as follows: For a manifold to be normally hyperbolic we are allowed to assume that the dynamics of itself is neutral compared with the dynamics nearby, which is not allowed.

Dynamics of Differential Equations on Invariant Manifolds

invariant manifolds of differential equations is often difficult to achieve in practice. Appropriate coordinate systems are difficult to find or are essentially local in nature thus complicating analysis of global dynamics.

A new invariant of 4-manifolds | PNAS

All known 4-manifolds invariants cannot distinguish a possible counterexample to the smooth 4-dimensional Poincaré Conjecture from the standard 4-sphere. The L invariant, defined in this paper, can do so, for if it vanishes on a homotopy 4-sphere X , then X must be diffeomorphic to the 4-sphere. Unfortunately, it is very hard to calculate.

Invariant Manifolds for Physical and Chemical Kinetics

nonequilibrium systems the theory of slow invariant manifolds. But the re-verse impact of physics onto methods is also significant. Applied mathematics and computational physics create a 'second (computational) reality'. This is a beautiful intellectual building, but in each element of this building, at each step of the work, we should take into account the basic physics; the violation of a

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A Fast Method for Approximating Invariant Manifolds

A FAST METHOD FOR APPROXIMATING

INVARIANT MANIFOLDS 233

hierarchical controls, a high-bandwidth part of the control-structure might be turned o once the system reaches a desired basin of attraction [1].