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Figure 3: (a) Transcritical bifurcation; (b) Pitchfork bifurcation is satisfied, then $0(0) \neq 0$, and a transcritical bifurcation occurs at $(0; u_0)$; and if $0(0) = 0$ and $0'(0) \neq 0$, then a pitchfork bifurcation occurs at $(0; u_0)$. By studying the degenerate solutions of (2), we proved the following result of imperfect bifurcation: Theorem 2.2.

Multi-Parameter Bifurcation and Applications

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MULTIPARAMETER BIFURCATION AND STABILITY OF SOLUTIONS AT A DOUBLE EIGENVALUE
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of bifurcation problems with application to fluid mechanics K. A. Cliffe AEA Technology, Harwell Laboratory, ... The numerical analysis of bifurcation problems is concerned with the stable, ... Schaeffer (1988) look at multiparameter bifurcation problems using singularity theory. Early conference proceedings

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The numerical analysis of bifurcation problems with

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bifurcation problem of finite codimension, it is possible to construct the universal unfolding which, in a sense, induces (up to F-equivalence) all small perturbations of the germ. This is the essence of the fundamental theorem (4.2) of the unfolding theory.

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PUBLICATIONS PAPERS - Heriot

Theory of dynamical systems, bifurcation theory, chaos, symmetries in dynamical systems, finite dimensional attractors in nonlinear PDEs, applications to nonlinear problems in physics and biology: nonlinear optics, turbulence

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Multiparameter Bifurcation Theory: Proceedings (Contemporary Mathematics) by Martin Golubitsky (Author), John M. Guckenheimer (Editor)

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An introduction to bifurcation theory Gregory Faye¹ ¹NeuroMathComp Laboratory, INRIA, Sophia Antipolis, CNRS, ENS Paris, France October 6, 2011 Abstract The aim of this chapter is to introduce tools from bifurcation theory which

An introduction to bifurcation theory

Theory of dynamical systems, bifurcation theory, chaos, symmetries in dynamical systems, finite dimensional attractors in nonlinear PDEs, applications to nonlinear problems in physics and biology: nonlinear optics, turbulence

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2 Proceedings of the conference on G. B. Seligman, Editors integration, topology, and geometry in 14 Lectures on Nielsen fixed point theory, ... David Mitzman 56 Multiparameter bifurcation theory, 41 Particle

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The index bundle and multiparameter bifurcation for

Multiparameter Bifurcation Theory: Proceedings (Contemporary Mathematics) by Martin Golubitsky, John M. Guckenheimer (Editor), American Mathematical Society, Victor Guillemin Paperback, 387 Pages, Published 1986

Multiparameter Bifurcation Theory: Proceedings

Mathematical Proceedings of the Cambridge Philosophical Society ... Mathematical Proceedings of the Cambridge Philosophical Society, 124, pp 275-304 ... to multiparameter bifurcation problems $f(x; \lambda) = 0$ with $\lambda \in \mathbb{R}^m$ diagonal symmetry on both the state variables and on the bifurcation parameters. More precisely, such bifurcation problems satisfy ...

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Multiparameter Stability Theory with Mechanical Applications : Bifurcation Analysis of Roots and Stability of Characteristic Polynomial Dependent on Parameters

Multiparameter Stability Theory with Mechanical

These papers use bifurcation theory or degree theory to discuss the existence of nontrivial solutions (A, x) of (1.1) bifurcating from $(A, 0)$, where A is a value of A for which the linearized system is singular in a suitable sense.

Bifurcation from eigenvalues in nonlinear multiparameter

progress in multiparameter bifurcation theory has permitted detailed investigations of complicated transitions found in fluids. In this article, we survey these developments in a selective fashion that complements the coverage of the related reviews by Michel (1980), Stewart (1988), Ahlers

Symmetry and Symmetry-Breaking Bifurcations in Fluid Dynamics

The term bifurcation in this paper refers to changes in the qualitative structure of any solutions to a system of ordinary differential equations with a varying parameter. This paper is about multiple bifurcations for which there is a multiple degeneracy in some feature of the system and a multi-dimensional parameter in its definition. The most immediate motivation for studying these problems ...

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directly from elementary step mass-action ... multiparameter Hopf bifurcation theory is outlined In the course this overview ...

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7 Local bifurcation theory In our linear stability analysis of the Eckhaus equation we saw that a neutral curve is generated, as sketched again below.

7 Local bifurcation theory - Durham University

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The first three sections treat problems in dimension 1. The next three sections show that for $N > 1$...

Professor Jeffrey RAUCH Dynamical Systems Bifurcation Theory

(1990) bifurcation problems of multiparameter and multibranch and their applications. Acta Mathematica Scientia 10 :1, 1-19. (1986) Analysis of a non-linear difference scheme in reaction-diffusion.

The Numerical Solution of a Bifurcation Problem | SIAM

CHAPTER SELECTED TOPICS IN BIFURCATION THEORY This chapter introduces some basic ideas in bifurcation theory and gives a few examples of current interest.

SELECTED TOPICS IN BIFURCATION THEORY

A multiparameter bifurcation theory is developed for families of asymptotically periodic solutions of a general Volterra integral system. A Hopf-type bifurcation theorem follows as a corollary. Within the bifurcating family is a strictly periodic

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A homogeneity condition guaranteeing bifurcation in multiparameter nonlinear eigenvalue problems 163 Since $\text{mult } A$ is odd, there is $1-s \in E(1+\delta^i)$ such that $\text{mult } (t,u)$ is odd. Now let d , b , and E be as above with the additional restrictions that $-2(\|A\| + 1)$ and $E < 26$.

A homogeneity condition guaranteeing bifurcation in

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Books by Marty Golubitsky - Ohio State University

Multiparameter bifurcation theory : proceedings of the AMS-IMS-SIAM joint summer research conference held July 14-20, 1985, with support from the National Science Foundation n82257516 On the convergence of the age structure

VIAF ID: 262682699 (Personal)

topics, which are interesting from a bifurcation theory point of view. This includes equivariant dynamical systems, Hamiltonian systems, dynamics on networks, in finite dimensional systems (partial differential

Bifurcation Theory - UvA

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Spectral asymptotics and bifurcation for nonlinear

multiparameter bifurcation problems which arise in the study of ordinary differential equations, especially, the bifurcation of ... The results will appear in the proceedings of the ... in our paper On A Computer Algebra Aided Proof in Bifurcation Theory. For the bifurcation of limit cycles we again consider an analytic differential equation ...

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Our approach relies upon the use of multiparameter bifurcation theory, a part of the modern theory of nonlinear dynamical systems. In particular, we 937 . 938 J. GUCKENHEIMER AND I. S. LABOURIAU describe how periodic and equilibrium solutions change as functions of the parameters representing the stimulus intensity I and the potassium reversal ...

Bifurcation of the Hodgkin and Huxley equations: A new twist

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Dynamics and Symmetry Group - Department of Mathematics

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On the structure of the set of bifurcation points of

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Bifurcation Analysis and Its Applications ... approach and the center manifold theory introduced by Hassard et. al,[10], we derive the formula for determining the properties of Hopf bifurcation of the model. Finally in this chapter, to support these theoretical results, we illustrate them by numerical

Bifurcation Analysis and Its Applications - InTech - Open

Synchrony versus symmetry in coupled cells. In: Equadiff 2003: Proceedings of the International ... L.S. Tuckerman and M. Golubitsky. Bifurcation theory for three-dimensional flow in the wake of a circular cylinder. ... Hopf bifurcation with dihedral group symmetry: coupled nonlinear oscillators. In: Multiparameter Bifurcation Theory. (M ...

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Bifurcation theory is the mathematical study of changes in the qualitative or topological structure of a given family, such as the integral curves of a family of vector fields, and the solutions of a family of differential equations. Most commonly applied to the mathematical study of dynamical systems, a bifurcation occurs when a small smooth change made to the parameter values (the bifurcation ...

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