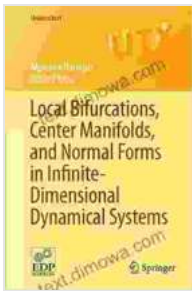


# Local Bifurcations Center Manifolds And Normal Forms In Infinite Dimensional: A Comprehensive Guide

Local Bifurcations Center Manifolds And Normal Forms In Infinite Dimensional is a comprehensive guide to the theory of local bifurcations in infinite-dimensional systems. The book provides a unified treatment of the subject, covering both the theoretical foundations and the practical applications of the theory.

The book is divided into three parts. The first part provides an to the theory of local bifurcations. This part covers the basic concepts of bifurcation theory, such as the definition of a bifurcation, the classification of bifurcations, and the methods for computing bifurcation points.



## Local Bifurcations, Center Manifolds, and Normal Forms in Infinite-Dimensional Dynamical Systems

**(Universitext)** by Mariana Haragus

★★★★★ 5 out of 5

Language : English

File size : 3151 KB

Text-to-Speech: Enabled

Screen Reader: Supported

Print length : 340 pages

Paperback : 68 pages

Item Weight : 6.6 ounces

Dimensions : 7 x 0.17 x 10 inches

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The second part of the book discusses the theory of center manifolds. A center manifold is a subspace of the phase space of a dynamical system that is invariant under the flow of the system. Center manifolds play an important role in the study of local bifurcations, as they can be used to reduce the dimensionality of the system and to simplify the analysis of the bifurcation.

The third part of the book discusses the theory of normal forms. A normal form is a simplified representation of a dynamical system that captures the essential features of the system's dynamics. Normal forms can be used to study the stability of bifurcations, to predict the behavior of the system near a bifurcation point, and to design control strategies for the system.

## **Key Features**

- \* Provides a unified treatment of the theory of local bifurcations in infinite-dimensional systems
- \* Covers both the theoretical foundations and the practical applications of the theory
- \* Includes numerous examples and exercises to illustrate the theory

## **Benefits**

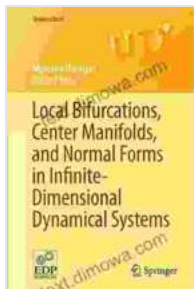
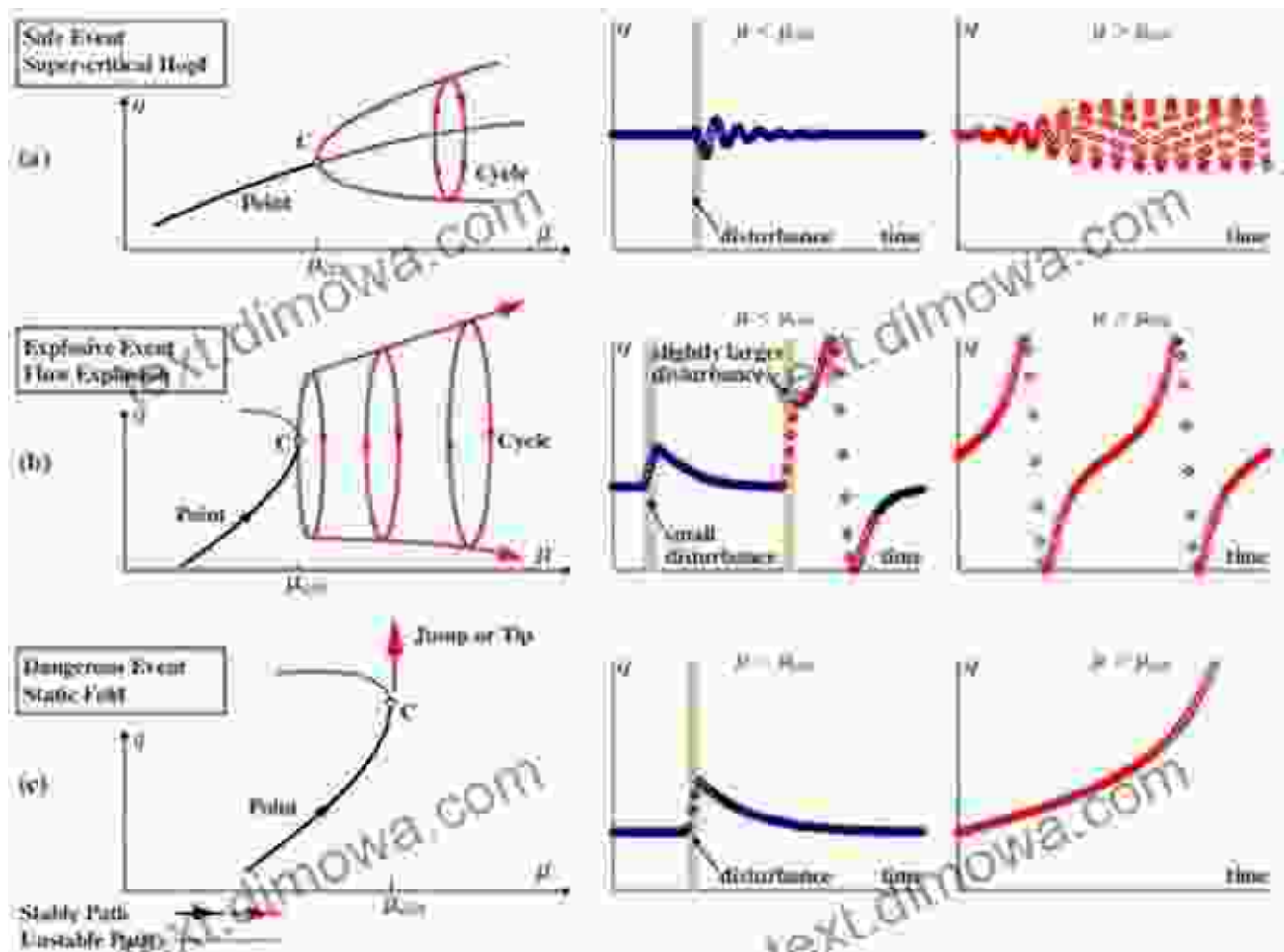
- \* Gain a comprehensive understanding of the theory of local bifurcations in infinite-dimensional systems
- \* Learn how to apply the theory to practical problems
- \* Develop the skills necessary to design control strategies for nonlinear systems

## **Target Audience**

- \* Researchers in mathematics and applied mathematics
- \* Engineers and scientists working in nonlinear dynamics
- \* Graduate students in mathematics, engineering, and science

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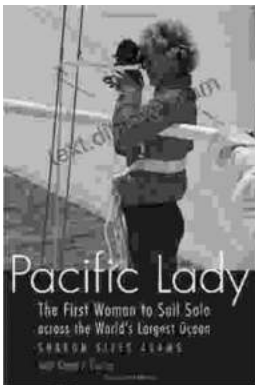
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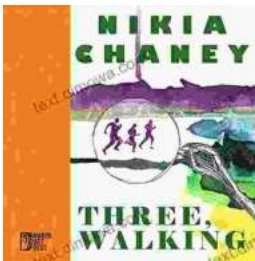
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