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This book provides a modern  
mathematical bifurcation  
theory applicable to  
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problems and fills the gap between the mathematical theory and engineering practice. Systematic methods based on asymptotic, probabilistic, and group theoretic standpoints are used to examine experimental

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engineering practice. Systematic methods based on asymptotic, probabilistic, and group theoretic standpoints are used to examine experimental and computational data from numerous examples, such as

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## Bifurcation Theory Applied

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or gain stability through bifurcation behavior. This book explains a series of experimentally found bifurcation phenomena by means of the methods of static bifurcation theory.

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In the past three decades,  
bifurcation theory has  
matured into a well-  
established and vibrant  
branch of mathematics. This  
book gives a unified

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presentation in an abstract setting of the main theorems in bifurcation theory, as well as more recent and lesser known results. It covers both the local and global theory of one-parameter bifurcations for



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operators acting in infinite-dimensional Banach spaces, and shows how to apply the theory to problems involving partial differential equations. In addition to existence, qualitative properties such as stability

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and nodal structure of bifurcating solutions are treated in depth. This volume will serve as an important reference for mathematicians, physicists, and theoretically-inclined engineers working in

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bifurcation theory and its  
applications to partial  
differential equations.

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understanding of the  
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structures in macroscopic systems. This book discusses the emergence of dissipative structures. Organized into 10 chapters, this book begins with an overview of the stability of a fluid layer with potentially

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unstable density stratification in the field of gravity. This text then explains the theoretical description of the dynamics of a given system at a formal level. Other chapters consider several examples of

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how such simplified models can be derived, complicating the picture progressively to account for other phenomena.

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the theoretical frame and deriving the analytical solution of the marginal stability problem. The final chapter deals with building a bridge between chaos as studied in weakly confined systems and more advanced

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turbulence in the most  
conventional sense. This  
book is a valuable resource  
for physicists.

## Mathematical Sciences

This book focuses on the  
optimization of a  
geometrically-nonlinear



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structure under stability  
constraint. It presents a  
deep insight into  
optimization-based and  
computer-assisted stability  
design of discrete  
structures. Coverage  
combines design sensitivity

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analysis developed in  
structural optimization and  
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analysis developed in  
stability analysis.

There have been stability  
theories developed for

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beams, plates and shells –  
the most significant  
elements in mechanical,  
aerospace, ocean and marine  
engineering. For beams and  
plates, the theoretical and  
experimental values of  
buckling loads are in close

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vicinity. However for thin shells, the experimental predictions do not conform with the theory, due to presence of small geometric imperfections that are deviations from the ideal shape. This fact has been

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literature as  
'embarrassing',  
'paradoxical' and  
'mperplexing'. Indeed, the  
popular adage, "In theory  
there is no difference  
between theory and practice.

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In practice there is", very much applies to thin shells whose experimental buckling loads may constitute a small fraction of the theoretical prediction based on classical linear theory; because in practice,

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engineers use knockdown factors that are not theoretically substantiated. This book presents a uniform approach that tames this prima-donna-like and capricious behavior of structures that has been

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dubbed the 'imperfection sensitivity' – thus resolving the conundrum that has occupied the best minds of elastic stability throughout the twentieth century.



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An extension of different  
lectures given by the  
authors, Local Bifurcations,  
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Dimensional Dynamical  
Systems provides the reader  
with a comprehensive

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overview of these topics. Starting with the simplest bifurcation problems arising for ordinary differential equations in one- and two-dimensions, this book describes several tools from the theory of infinite

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dimensional dynamical systems, allowing the reader to treat more complicated bifurcation problems, such as bifurcations arising in partial differential equations. Attention is restricted to the study of

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local bifurcations with a focus upon the center manifold reduction and the normal form theory; two methods that have been widely used during the last decades. Through use of step-by-step examples and

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exercises, a number of possible applications are illustrated, and allow the less familiar reader to use this reduction method by checking some clear assumptions. Written by recognised experts in the

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field of center manifold and normal form theory this book provides a much-needed graduate level text on bifurcation theory, center manifolds and normal form theory. It will appeal to graduate students and

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researchers working in  
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This textbook gives a  
contemporary account of  
singularity theory and its  
principal application,  
bifurcation theory.

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This book contributes to an understanding of how bifurcation theory adapts to the analysis of economic geography. It is easily accessible not only to mathematicians and



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economists, but also to upper-level undergraduate and graduate students who are interested in nonlinear mathematics. The self-organization of hexagonal agglomeration patterns of industrial regions was first

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predicted by the central  
place theory in economic  
geography based on  
investigations of southern  
Germany. The emergence of  
hexagonal agglomeration in  
economic geography models  
was envisaged by Krugman. In

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this book, after a brief introduction of central place theory and new economic geography, the missing link between them is discovered by elucidating the mechanism of the evolution of bifurcating

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hexagonal patterns. Pattern formation by such bifurcation is a well-studied topic in nonlinear mathematics, and group-theoretic bifurcation analysis is a well-developed theoretical tool. A finite

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hexagonal lattice is used to express uniformly distributed places, and the symmetry of this lattice is expressed by a finite group. Several mathematical methodologies indispensable for tackling the present

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problem are gathered in a self-contained manner. The existence of hexagonal distributions is verified by group-theoretic bifurcation analysis, first by applying the so-called equivariant branching lemma and next by

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solving the bifurcation equation. This book offers a complete guide for the application of group-theoretic bifurcation analysis to economic agglomeration on the hexagonal lattice.

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