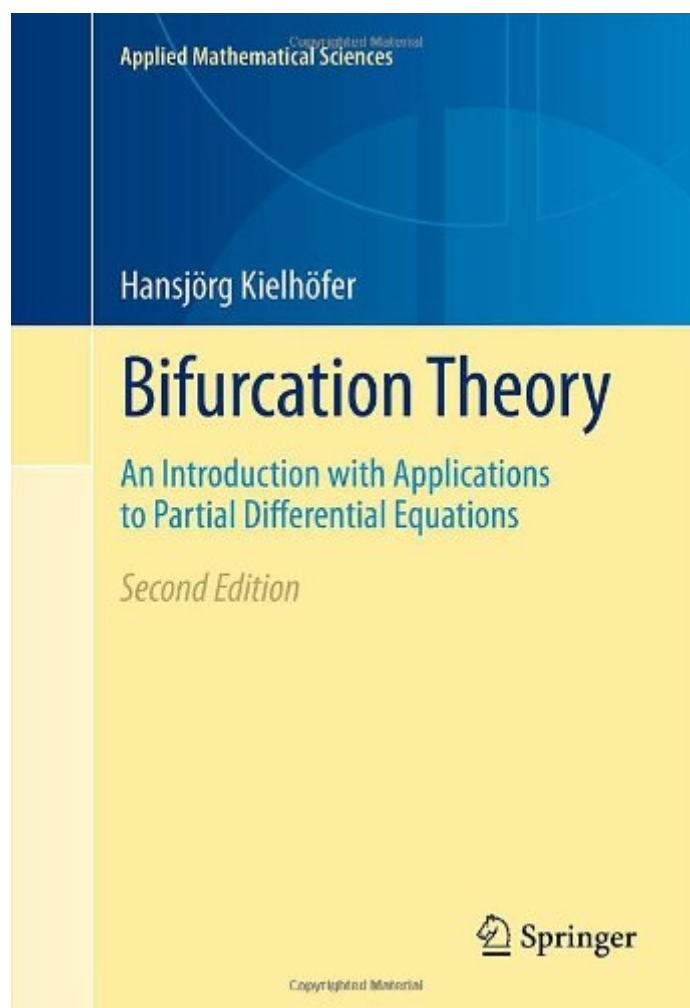


# Bifurcation Theory: An Introduction with Applications to Partial Differential Equations (Applied Mathematical Sciences) PDF



**Download**



**Read Online**

Bifurcation Theory: An Introduction with Applications to Partial Differential Equations (Applied Mathematical Sciences) by Hansjörg Kielhöfer ISBN 1461405017

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

The second edition is substantially and formally revised and new material is added. Among this is bifurcation with a two-dimensional kernel with applications, the buckling of the Euler rod, the appearance of Taylor vortices, the singular limit process of the Cahn-Hilliard model, and an application of this method to more complicated nonconvex variational problems.

## **Bifurcation Theory: An Introduction with Applications to Partial Differential Equations (Applied Mathematical Sciences) Review**

This Bifurcation Theory: An Introduction with Applications to Partial Differential Equations (Applied Mathematical Sciences) book is not really ordinary book, you have it then the world is in your hands. The benefit you get by reading this book is actually information inside this reserve incredible fresh, you will get information which is getting deeper an individual read a lot of information you will get. This kind of Bifurcation Theory: An Introduction with Applications to Partial Differential Equations (Applied Mathematical Sciences) without we recognize teach the one who looking at it become critical in imagining and analyzing. Don't be worry Bifurcation Theory: An Introduction with Applications to Partial Differential Equations (Applied Mathematical Sciences) can bring any time you are and not make your tote space or bookshelves' grow to be full because you can have it inside your lovely laptop even cell phone. This Bifurcation Theory: An Introduction with Applications to Partial Differential Equations (Applied Mathematical Sciences) having great arrangement in word and layout, so you will not really feel uninterested in reading.