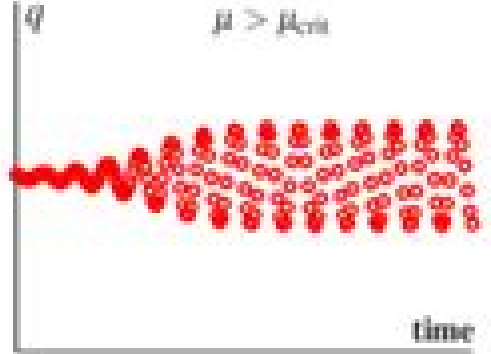
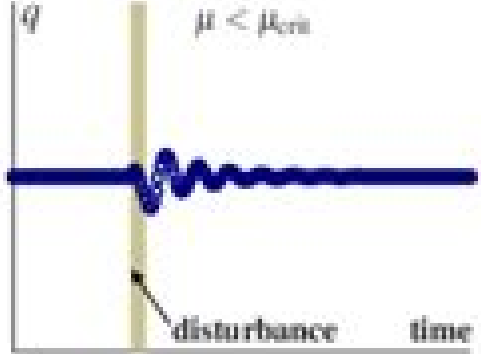
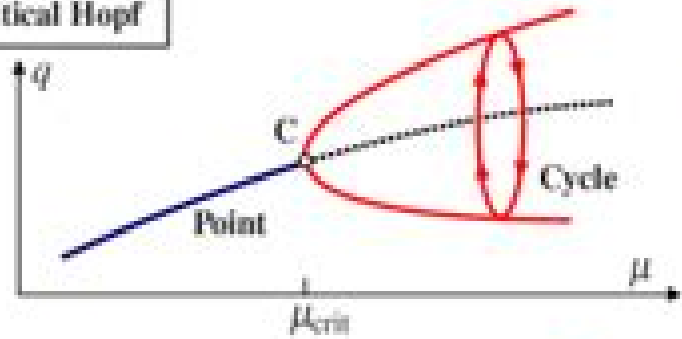


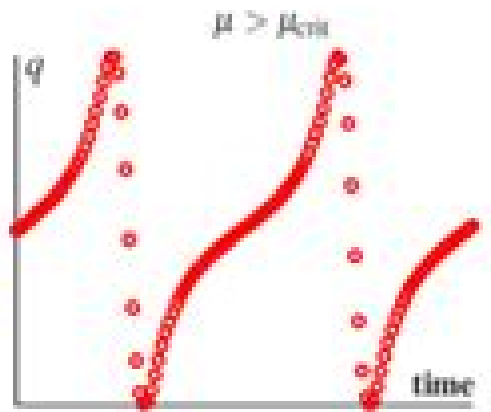
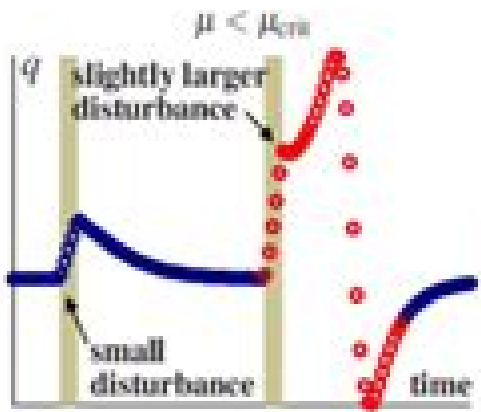
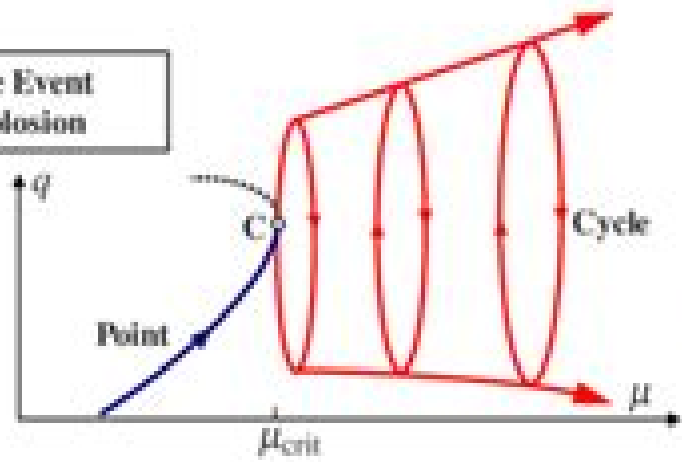
Safe Event
Super-critical Hopf

(a)



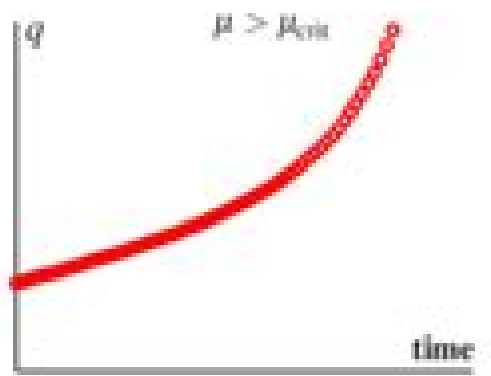
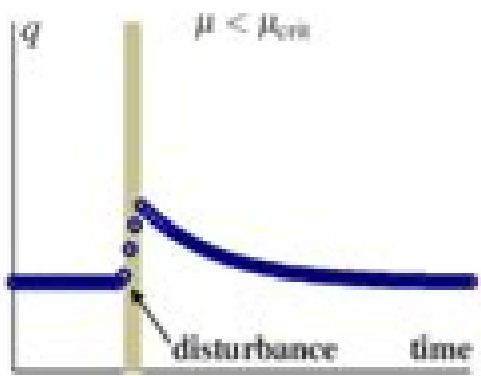
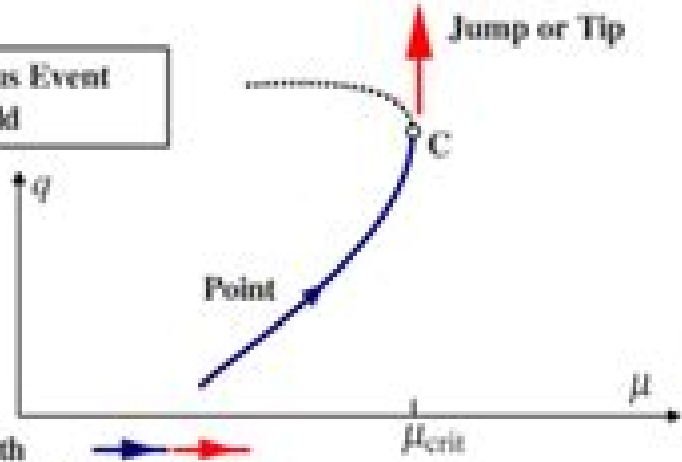
Explosive Event
Flow Explosion

(b)



Dangerous Event
Static Fold

(c)



Stable Path  
Unstable Path 

Methods Of Bifurcation Theory

S.-N. Chow, J. K. Hale



Methods Of Bifurcation Theory:

Methods of Bifurcation Theory S.-N. Chow, J. K. Hale, 2012-12-06 An alternative title for this book would perhaps be Nonlinear Analysis Bifurcation Theory and Differential Equations Our primary objective is to discuss those aspects of bifurcation theory which are particularly meaningful to differential equations To accomplish this objective and to make the book accessible to a wider we have presented in detail much of the relevant background audience material from nonlinear functional analysis and the qualitative theory of differential equations Since there is no good reference for some of the material its inclusion seemed necessary Two distinct aspects of bifurcation theory are discussed static and dynamic Static bifurcation theory is concerned with the changes that occur in the structure of the set of zeros of a function as parameters in the function are varied If the function is a gradient then variational techniques play an important role and can be employed effectively even for global problems If the function is not a gradient or if more detailed information is desired the general theory is usually local At the same time the theory is constructive and valid when several independent parameters appear in the function In differential equations the equilibrium solutions are the zeros of the vector field Therefore methods in static bifurcation theory are directly applicable Methods of Bifurcation Theory Shui-Nee Chow, 1996 **Group Theoretic Methods in Bifurcation Theory** David H. Sattinger, 2014-01-15 **Computational Methods in Bifurcation Theory and Dissipative Structures** M. Kubicek, M. Marek, 2012-12-06 Dissipative structures is a concept which has recently been used in physics to discuss the formation of structures organized in space and or time at the expense of the energy flowing into the system from the outside The space time structural organization of biological systems starting from the subcellular level up to the level of ecological systems coherent structures in laser and of elastic stability in mechanics instability in hydro plasma physics problems dynamics leading to the development of turbulence behavior of electrical networks and chemical reactors form just a short list of problems treated in this framework Mathematical models constructed to describe these systems are usually nonlinear often formed by complicated systems of algebraic ordinary differential or partial differential equations and include a number of characteristic parameters In problems of theoretical interest as well as engineering practice we are concerned with the dependence of solutions on parameters and particularly with the values of parameters where qualitatively new types of solutions e g oscillatory solutions new stationary states and chaotic attractors appear bifurcate Numerical techniques to determine both bifurcation points and the dependence of steady state and oscillatory solutions on parameters are developed and discussed in detail in this text The text is intended to serve as a working manual not only for students and research workers who are interested in dissipative structures but also for practicing engineers who deal with the problems of constructing models and solving complicated nonlinear systems **Bifurcation Theory And Methods Of Dynamical Systems** Maoan Han, Dingjun Luo, Xian Wang, Deming Zhu, 1997-11-29 Dynamical bifurcation theory is concerned with the changes that occur in the global structure of dynamical systems as parameters are varied This book makes recent research in

bifurcation theory of dynamical systems accessible to researchers interested in this subject In particular the relevant results obtained by Chinese mathematicians are introduced as well as some of the works of the authors which may not be widely known The focus is on the analytic approach to the theory and methods of bifurcations The book prepares graduate students for further study in this area and it serves as a ready reference for researchers in nonlinear sciences and applied mathematics

Perturbation Methods, Bifurcation Theory and Computer Algebra Richard H. Rand, Dieter Armbruster, 2012-12-06 Perturbation methods have always been an important tool for treating nonlinear differential equations Now the drudgery associated with them has been eliminated This book offers computer algebra MACSYMA programs which implement the most popular perturbation methods Not only does this avoid the errors associated with hand computation but the increase in efficiency permits more complicated problems to be tackled This book is useful both for the beginner learning perturbation methods for the first time as well as for the researcher Methods covered include Lindstedt's method center manifolds normal forms two variable expansion method method of multiple scales averaging Lie transforms and Liapunov Schmidt reduction For each method the book includes an introduction and some example problems solved both by hand and by machine The examples feature common bifurcations such as the pitchfork and the Hopf The MACSYMA code for each method is given and suggested exercises are provided at the end of each Chapter An Appendix offers a brief introduction to MACSYMA

Elements of Applied Bifurcation Theory Yuri Kuznetsov, 2013-03-09 The years that have passed since the publication of the first edition of this book proved that the basic principles used to select and present the material made sense The idea was to write a simple text that could serve as a serious introduction to the subject Of course the meaning of simplicity varies from person to person and from country to country The word introduction contains even more ambiguity To start reading this book only a moderate knowledge of linear algebra and calculus is required Other preliminaries qualified as elementary in modern mathematics are explicitly formulated in the book These include the Fredholm Alternative for linear systems and the multidimensional Implicit Function Theorem Using these very limited tools a framework of notions results and methods is gradually built that allows one to read and possibly write scientific papers on bifurcations of nonlinear dynamical systems Among other things progress in the sciences means that mathematical results and methods that once were new become standard and routinely used by the research and development community Hopefully this edition of the book will contribute to this process The book's structure has been kept intact Most of the changes introduced reflect recent theoretical and software developments in which the author was involved Important changes in the third edition can be summarized as follows A new section devoted to the fold flip bifurcation for maps has appeared in Chapter 9

Bifurcation Theory and Methods of Dynamical Systems Dingjun Luo, 1997 Dynamical bifurcation theory is concerned with the changes that occur in the global structure of dynamical systems as parameters are varied This book makes recent research in bifurcation theory of dynamical systems accessible to researchers interested in

this subject In particular the relevant results obtained by Chinese mathematicians are introduced as well as some of the works of the authors which may not be widely known The focus is on the analytic approach to the theory and methods of bifurcations The book prepares graduate students for further study in this area and it serves as a ready reference for researchers in nonlinear sciences and applied mathematics Computational Methods in Bifurcation Theory and Dissipative Structures

M Kubicek,M Marek,1983-11-01

Continuation Techniques and Bifurcation Problems

MITTELMANN,FISCHER,2013-11-21 The analysis of parameter dependent nonlinear has received much attention in recent years Numerical continuation techniques allow the efficient computation of solution branches in a one parameter problem In many cases continuation procedures are used as part of a more complete analysis of a nonlinear problem based on bifurcation theory and singularity theory These theories contribute to the understanding of many nonlinear phenomena in nature and they form the basis for various analytical and numerical tools which provide qualitative and quantitative results about nonlinear systems In this issue we have collected a number of papers dealing with continuation techniques and bifurcation problems Readers familiar with the notions of continuation and bifurcation will find recent research results addressing a variety of aspects in this issue Those who intend to learn about the field or a specific topic in it may find it useful to first consult earlier literature on the numerical treatment of these problems together with some theoretical background The papers in this issue fall naturally into different groups

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