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Bifurcation Problems and their Numerical Solution Bifurcation Problems and their Numerical Solution Bifurcation and Localisation Theory in Geomechanics Advances in Bifurcation and Degradation in Geomaterials Bifurcation and Degradation of Geomaterials in the New Millennium Advances in Bifurcation and Degradation in Geometerials Bifurcation Theory and Spatio-Temporal Pattern Formation Bifurcations, Instabilities, Degradation in Geomechanics Bifurcation and Degradation of Geomaterials with Engineering Applications Bifurcation and Symmetry Numerical Methods for Bifurcation Problems and Large-Scale Dynamical Systems Dynamical Systems and Bifurcations Bifurcations, Instabilities and Degradations in Geomaterials Bifurcations and Instabilities in Geomechanics Bifurcation and Chaos in Complex Systems Dynamics, Bifurcations and Control Dynamics, Bifurcation and Symmetry Continuous Media with Microstructure 2 Mathematics and Mechanics of Granular Materials Dynamics, Bifurcations and Control Dynamics and Bifurcation of Patterns in Dissipative Systems Multiscale Processes of Instability, Deformation and Fracturing in Geomaterials IUTAM Symposium on Theoretical and Numerical Methods in Continuum Mechanics of Porous Materials 2nd International Workshop on Numerical Methods for Localization and Bifurcation of Granular Bodies Proceedings of the 16th International Conference on Soil Mechanics and Geotechnical Engineering Singularity Theory and its Applications Mechanics of Jointed and Faulted Rock Deformation and Progressive Failure in Geomechanics Numerical Models in Geomechanics Bifurcation and Symmetry Constitutive Modelling of Granular Materials Bifurcation Analysis of Fluid Flows ducati monster 900 2023-10-22 1/23 service repair manual

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Bifurcation Problems and their Numerical Solution

1980-01-01

this work contains proceedings of a workshop on bifurcation and localisation theory in geomechanics held in perth australia in 1999 it covers a range of themes from classic civil engineering subjects to non linear and non unique geological phenomena

Bifurcation Problems and their Numerical Solution

2013-11-21

this book presents contributions to the 9th international workshop on bifurcation and degradation in geomaterials held in porquerolles france may 23 26 2011 this series of conferences started in the early 1980s is dedicated to the research on degradation and instability phenomena in geomaterials the volume gathers a series of manuscripts by brilliant international scholars reflecting recent trends in theoretical and experimental research in geomechanics it incorporates contributions on topics like instability analysis localized and diffuse failure description multi scale modeling and applications to geo environmental issues this book will be valuable for anyone interested in the research on degradation and instabilities in geomechanics and geotechnical engineering appealing to graduate students researchers and engineers alike

Bifurcation and Localisation Theory in Geomechanics

2021-07-01

this book contains contributions to the 10th international workshop on bifurcation and degradation in geomaterials held in hong kong may 28 30 ducati monster 900 service repair manual

2014 this event marks the silver jubilee anniversary of an international conference series dedicated to the research on localization instability degradation and failure of geomaterials since 1988 when its first workshop was organized in germany this volume of book collects the latest progresses and state of the art research from top researchers around the world and covers topics including multiscale modeling experimental characterization and theoretical analysis of various instability and degradation phenomena in geomaterials as well as their relevance to contemporary issues in engineering practice this book can be used as a useful reference for research students academics and practicing engineers who are interested in the instability and degradation problems in geomechanics and geotechnical engineering

Advances in Bifurcation and Degradation in Geomaterials

2011-08-03

this book presents contributions to the 9th international workshop on bifurcation and degradation in geomaterials held in porquerolles france may 23 26 2011 this series of conferences started in the early 1980s is dedicated to the research on degradation and instability phenomena in geomaterials the volume gathers a series of manuscripts by brilliant international scholars reflecting recent trends in theoretical and experimental research in geomechanics it incorporates contributions on topics like instability analysis localized and diffuse failure description multi scale modeling and applications to geo environmental issues this book will be valuable for anyone interested in the research on degradation and instabilities in geomechanics and geotechnical engineering appealing to graduate students researchers and engineers alike

Bifurcation and Degradation of Geomaterials in the New Millennium

2014-12-29

nonlinear dynamical systems and the formation of spatio temporal patterns play an important role in current research on partial differential equations this book contains articles on topics of current interest in applications of dynamical systems theory to problems of pattern formation in space and time topics covered include aspects of lattice dynamical systems convection in fluid layers with large aspect ratios mixed mode oscillations and canards bacterial remediation of waste gyroscopic systems data clustering and the second part of hilbert s 16th problem most of the book consists of expository survey material and so can serve as a source of convenient entry points to current research topics in nonlinear dynamics and pattern formation this volume arose from a workshop held at the fields institute in december of 2003 honoring professor william f langford s fundamental work on the occasion of his sixtieth birthday information for our distributors titles in this series are copublished with the fields institute for research in mathematical sciences toronto ontario canada

Advances in Bifurcation and Degradation in Geomaterials

2011-08-06

this is an up to date review of developments in the field of bifurcations and instabilities in geomechanics from some of the world's leading experts leading international researchers and practitioners of the topics debate the developments and applications which have occurred over the last few decades beside fundamental research findings applications in geotechnical petroleum mining and bulk materials engineering are emphasised

Bifurcation Theory and Spatio-Temporal Pattern Formation

2006-10-03

this book contains the scientific contributions to the 11th international

workshop on bifurcation and degradation in geomaterials iwbdg held in limassol cyprus may 21 25 2017 the iwbdg series have grown in size and scope since their inception 30 years ago in germany covering more and wider areas of geomaterials and geomechanics research including modern trends the papers cover a wide range of topics including advances in instabilities localized and diffuse failure micromechanical multiscale phenomena multiphysics modeling and other related topics this volume gathers a series of manuscript by brilliant international scholars who work on modern recent advances in experimental theoretical and numerical methods the theoretical and applied mechanics are linked successfully with engineering applications in traditional and in emerging fields such as geomechanics for the energy and the environment the quality of the contributed papers has benefited from the peer review process by expert referees this book can be used as a useful reference for research students academics and practicing engineers who are interested in the instability and degradation problems in geomaterials geomechanics geotechnical engineering and other related applications

Bifurcations, Instabilities, Degradation in Geomechanics

2007-04-27

symmetry is a property which occurs throughout nature and it is therefore natural that symmetry should be considered when attempting to model nature in many cases these models are also nonlinear and it is the study of nonlinear symmetric models that has been the basis of much recent work although systematic studies of nonlinear problems may be traced back at least to the pioneering contributions of poincare this remains an area with challenging problems for mathematicians and scientists phenomena whose models exhibit both symmetry and nonlinearity lead to problems which are challenging and rich in complexity beauty and utility in recent years the tools provided by group theory and representation theory have proven to be highly effective in treating nonlinear problems involving symmetry by these means highly complex situations may be decomposed into a number of simpler ones which are already understood or are at least easier to handle in the realm

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of numerical approximations the systematic exploitation of symmetry via group repre sentation theory is even more recent in the hope of stimulating interaction and acquaintance with results and problems in the various fields of applications bifurcation theory and numerical analysis we organized the conference and workshop bifurcation and symmetry cross influences between mathematics and applications during june 2 7 8 14 1991 at the philipps university of marburg germany

Bifurcation and Degradation of Geomaterials with Engineering Applications

2017-04-21

the institute for mathematics and its applications ima devoted its 1997 1998 program to emerging applications of dynamical systems dynamical systems theory and related numerical algorithms provide powerful tools for studying the solution behavior of differential equations and mappings in the past 25 years computational methods have been developed for calculating fixed points limit cycles and bifurcation points a remaining challenge is to develop robust methods for calculating more complicated objects such as higher codimension bifurcations of fixed points periodic orbits and connecting orbits as well as the calcuation of invariant manifolds another challenge is to extend the applicability of algorithms to the very large systems that result from discretizing partial differential equations even the calculation of steady states and their linear stability can be prohibitively expensive for large systems e g 10 3 10 6 equations if attempted by simple direct methods several of the papers in this volume treat computational methods for low and high dimensional systems and in some cases their incorporation into software packages a few papers treat fundamental theoretical problems including smooth factorization of matrices self organized criticality and unfolding of singular heteroclinic cycles other papers treat applications of dynamical systems computations in various scientific fields such as biology chemical engineering fluid mechanics and mechanical engineering

Bifurcation and Symmetry

2013-03-08

geomaterials exhibit complex but rich mechanical behaviour with a variety of failure modes ranging from diffuse to localized deformation depending on stress density microstructure and loading conditions these failure modes are a result of an instability of material and or geometric nature that can be studied within the framework of bifurcation theory degradation is another related phenomenon arising from cyclic loading ageing weathering chemical attack and capillary effects among others the methodology of analyzing the various types of instabilities is crucial in the adequate modelling and safe design of numerous problems in geomechanics the present volume contains a sampling of enlarged versions of papers presented at the international workshop on bifurcation and degradations in geomaterials iwbdg 2008 held in lake louise alberta canada may 28 31 2008 these papers capture the state of the art in the specialized field of geomechanics and contemporary approaches to solving the central issue of failure some engineering applications are presented in the areas of energy resource extraction and soil machine interaction

Numerical Methods for Bifurcation Problems and Large-Scale Dynamical Systems

2012-12-06

this book contains a sampling of papers presented at the june 2 5 2002 international workshop on bifurcations and amp instabilities in geomechanics iwbi 2002 the scope of the workshop includes analytical approaches numerical methods and experimental techniques

Dynamical Systems and Bifurcations

2006-11-14

the book presents the recent achievements on bifurcation studies of nonlinear dynamical systems the contributing authors of the book are all distinguished researchers in this interesting subject area the first two chapters deal with the fundamental theoretical issues of bifurcation analysis in smooth and non smooth dynamical systems the cell mapping methods are presented for global bifurcations in stochastic and deterministic nonlinear dynamical systems in the third chapter the fourth chapter studies bifurcations and chaos in time varying parametrically excited nonlinear dynamical systems the fifth chapter presents bifurcation analyses of modal interactions in distributed nonlinear dynamical systems of circular thin von karman plates the theories methods and results presented in this book are of great interest to scientists and engineers in a wide range of disciplines this book can be adopted as references for mathematicians scientists engineers and graduate students conducting research in nonlinear dynamical systems new views for difficult problems novel ideas and concepts hilbert s 16th problem normal forms in polynomial hamiltonian systems grazing flow in non smooth dynamical systems stochastic and fuzzy nonlinear dynamical systems fuzzy bifurcation parametrical nonlinear systems mode interactions in nonlinear dynamical systems

Bifurcations, Instabilities and Degradations in Geomaterials

2011-03-16

this volume originates from the third nonlinear control workshop namics bifurcations and control held in kloster irsee april 1 3 2001 as the preceding workshops held in paris 2000 and in ghent 1999 it was organized within the framework of nonlinear control network funded by the european union supelec fr lss ncn the papers in this volume center around those control problems where phenomena and methods from dynamical systems theory play a dominant role despite the large variety of techniques and methods present in the c tributions a rough subdivision can be given into three areas bifurcation problems stabilization and robustness and global dynamics of control s tems a large part of the fascination in nonlinear control stems from the fact that is deeply rooted

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in engineering and mathematics alike the contributions to this volume reflect this double nature of nonlinear control we would like to take this opportunity to thank all the contributors and the referees for their careful work furthermore it is our pleasure to thank franchise lamnabhi lagarrigue the coordinator of our network for her s port in organizing the workshop and the proceedings and for the tremendous efforts she puts into this network bringing the cooperation between the d ferent groups to a new level in particular the exchange and the active p ticipation of young scientists also reflected in the pedagogical schools within the network is an asset for the field of nonlinear control

Bifurcations and Instabilities in Geomechanics

2003-01-01

this book collects contributions to the conference dynamics bifurcation and symmetry new trends and new tools which was held at the institut d etudes sci entifiques de cargese france september 3 9 1993 the first aim of this conference was to gather and summarize the work of the european bifurcation theory group after two years of existence the ebtg links european laboratories in five countries via an ec grant thanks to a nato arw grant the conference developed into an international meeting on bifurcation theory and dynamical systems with the partic ipation of leading specialists not only from europe but also from overseas countries canada usa south america it was a great satisfaction to notice the active and quite enthusiastic participation of many young scientists this is reflected in the present book for which many contributors are phd students or post doc researchers although several big themes bifurcation with symmetry low dimensional dynam ics dynamics in edp's applications are present in these proceedings we have divided the book into corresponding parts in fact these themes overlap in most contributions which seems to reflect a general tendancy in nonlinear science i am very pleased to thank for their support the nato international exchange scientific program as well as the eec science program which made possible the suc cess of this conference

Bifurcation and Chaos in Complex Systems

2006-06-30

this book presents research advances in the field of continuous media with microstructure and considers the three complementary pillars of mechanical sciences theory research and computational simulation it focuses on the following problems thermodynamic and mathematical modeling of materials with extensions of classical constitutive laws single and multicomponent media including modern multifunctional materials wave propagation multiscale and multiphysics processes phase transformations and porous granular and composite materials the book presents the proceedings of the 2nd conference on continuous media with microstructure which was held in 2015 in Łagów poland in memory of prof krzysztof wilmański

Dynamics, Bifurcations and Control

2014-03-12

granular or particulate materials arise in almost every aspect of our lives including many familiar materials such as tea coffee sugar sand cement and powders at some stage almost every industrial process involves a particulate material and it is usually the cause of the disruption to the smooth running of the process in the natural environment understanding the behaviour of particulate materials is vital in many geophysical processes such as earthquakes landslides and avalanches this book is a collection of current research from some of the major contributors in the topic of modelling the behaviour of granular materials papers from every area of current activity are included such as theoretical numerical engineering and computational approaches this book illustrates the numerous diverse approaches to one of the outstanding problems of modern continuum mechanics

Dynamics, Bifurcation and Symmetry

2012-12-06

this volume originates from the third nonlinear control workshop namics bifurcations and control held in kloster irsee april 1 3 2001 as the preceding workshops held in paris 2000 and in ghent 1999 it was organized within the framework of nonlinear control network funded by the european union supelec fr lss ncn the papers in this volume center around those control problems where phenomena and methods from dynamical systems theory play a dominant role despite the large variety of techniques and methods present in the c tributions a rough subdivision can be given into three areas bifurcation problems stabilization and robustness and global dynamics of control s tems a large part of the fascination in nonlinear control stems from the fact that is deeply rooted in engineering and mathematics alike the contributions to this volume reflect this double nature of nonlinear control we would like to take this opportunity to thank all the contributors and the referees for their careful work furthermore it is our pleasure to thank franchise lamnabhi lagarrique the coordinator of our network for her s port in organizing the workshop and the proceedings and for the tremendous efforts she puts into this network bringing the cooperation between the d ferent groups to a new level in particular the exchange and the active p ticipation of young scientists also reflected in the pedagogical schools within the network is an asset for the field of nonlinear control

Continuous Media with Microstructure 2

2016-02-09

contains a collection of expository papers and advanced research articles which provide an overview the state of the art topics include new approaches to the mathematical characterization of spatiotemporal complexity as well as analysis of patterns in a variety of applied fields

Mathematics and Mechanics of Granular Materials

2005-12-27

proceedings of 12th international workshop on bifurcation and
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degradation in geomechanics iwbdg2022 held on 28 november 1 december 2022 at the university of western australia in perth australia the book concentrates on deep understanding of the processes of bifurcation and instability in geoengineering systems the book covers multiscale processes from the scale of crystals to rocks to rock masses the book considers a wide range of accompanying phenomena from liquefaction to seismicity and landslides topics covered are i localisation and instability in geomaterials ii fracturing failure and seismicity iii deformation processes intended readership universities and consulting and research organisations research students academics and engineers working in the fields of geomechanics rock mechanics and geotechnical engineering

Dynamics, Bifurcations and Control

2002-01-11

during the last decades continuum mechanics of porous materials has achieved great attention since it allows for the consideration of the volumetrically coupled behaviour of the solid matrix deformation and the pore fluid flow naturally applications of porous media models range from civil and environmental engineering where e g geote nical problems like the consolidation problem are of great interest via mechanical engineering where e g the description of sinter materials or polymeric and metallic foams is a typical problem to chemical and biomechanical engineering where e g the complex structure of I ing tissues is studied although these applications are principally very different they basically fall into the category of multiphase materials which can be described on the macroscale within the framework of the well founded theory of porous media tpm with the increasing power of computer hardware together with the rapidly decreasing computational costs numerical solutions of complex coupled problems became possible and have been seriously investigated however since the quality of the numerical solutions strongly depends on the quality of the underlying physical model together with the experimental and mathematical possibilities to successfully determine realistic material parameters a successful treatment of porous materials requires a joint consideration of continuum mechanics experimental mechanics and numerical methods in addition micromechanical vestigations and homogenization techniques are very helpful to increase the phenomenological understanding of such media

Dynamics and Bifurcation of Patterns in Dissipative Systems

2004

the 16th icsmge responds to the needs of the engineering and construction community promoting dialog and exchange between academia and practice in various aspects of soil mechanics and geotechnical engineering this is reflected in the central theme of the conference geotechnology in harmony with the global environment the proceedings of the conference are of great interest for geo engineers and researchers in soil mechanics and geotechnical engineering volume 1 contains 5 plenary session lectures the terzaghi oration heritage lecture and 3 papers presented in the major project session volumes 2 3 and 4 contain papers with the following topics soil mechanics in general infrastructure and mobility environmental issues of geotechnical engineering enhancing natural disaster reduction systems professional practice and education volume 5 contains the report of practitioner academic forum 20 general reports a summary of the sessions and workshops held during the conference

Multiscale Processes of Instability, Deformation and Fracturing in Geomaterials

2022-12-12

a workshop on singularities bifuraction and dynamics was held at warwick in july 1989 as part of a year long symposium on singularity theory and its applications the proceedings fall into two halves volume i mainly on connections with algebraic geometry and volume ii on connections with dynamical systems theory bifurcation theory and

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applications in the sciences the papers are original research stimulated by the symposium and workshop all have been refereed and none will appear elsewhere the main topic of volume ii is new methods for the study of bifurcations in nonlinear dynamical systems and applications of these

IUTAM Symposium on Theoretical and Numerical Methods in Continuum Mechanics of Porous Materials

2006-04-11

topics covered in this text include geology and structural geology mechanics dynamics of jointed and faulted rock physical modelling and testing constitutive modelling seismicity and tectonics instrumentation hydraulics and applications

2nd International Workshop on Numerical Methods for Localization and Bifurcation of Granular Bodies

1989

progressive failure has been a classical problem in the field of geotechnical engineering and has attracted considerable attention in connection with slope stability and foundation problems it is associated with strain localization or shear banding and is also related to damage in material structures as knowledge of the progressive failure mechanism increases it is now necessary to establish effective communications between researchers and engineers the international symposium on deformation and progressive failure in geomechanics provided an opportunity for discussing recent advances in this area a total of 136 papers were contributed from 22 countries as well as these the symposium proceedings also contain 8 interim technical reports on the subject by the members of the asian technical committee of the

international society for soil mechanics and foundation engineering and the japanese geotechnical society national committee on progressive failure in geo structures

Proceedings of the 16th International Conference on Soil Mechanics and Geotechnical Engineering

2005-09-12

in this volume a number of developments on a variety of topics have been reported these topics include partially saturated soil instabilities in soil behaviour environmental geomechanics parallel computing and applications to tunnels embankments slopes foundations and anchors

Singularity Theory and its Applications

2006-11-14

in view of its extreme complexity the mathematical description of the mechanical behaviour of granular materials is an extremely difficult task today many different models compete with each other however the complexity of the models hinders their comparison and the potential users are confused and often disencouraged this book is expected to serve as a milestone in the present situation to evaluate the present methodes to clear up the situation to focus and encourage for further research activities

Mechanics of Jointed and Faulted Rock

2018-04-27

a better understanding of the mechanisms leading a fluid system to exhibit turbulent behavior is one of the grand challenges of the physical and mathematical sciences over the last few decades numerical bifurcation methods have been extended and applied to a number of flow problems to identify critical conditions for fluid instabilities to occur this book provides a state of the art account of these numerical methods with much attention to modern linear systems solvers and generalized eigenvalue solvers these methods also have a broad applicability in industrial environmental and astrophysical flows the book is a must have reference for anyone working in scientific fields where fluid flow instabilities play a role exercises at the end of each chapter and python code for the bifurcation analysis of canonical fluid flow problems provide practice material to get to grips with the methods and concepts presented in the book

Deformation and Progressive Failure in Geomechanics

1997-10-23

computational modeling of multiphase geomaterials discusses how numerical methods play a very important role in geotechnical engineering and in the related activity of computational geotechnics it shows how numerical methods and constitutive modeling can help predict the behavior of geomaterials such as soil and rock after presenting the fundamentals of continuum mechanics the book explores recent advances in the use of modeling and numerical methods for multiphase geomaterial applications the authors describe the constitutive modeling of soils for rate dependent behavior strain localization multiphase theory and applications in the context of large deformations they also emphasize viscoplasticity and water soil coupling drawing on the authors well regarded work in the field this book provides you with the knowledge and tools to tackle problems in geomechanics it gives you a comprehensive understanding of how to apply continuum mechanics constitutive modeling finite element analysis and numerical methods to predict the behavior of soil and rock

Numerical Models in Geomechanics

2020-12-18

the topics discussed in this text range from quasi static problems to dynamic problems and are divided into 15 groups such as cohesion cracking wave propagation and quasi static behaviour each group contains theoretical experimental and computational approaches by researchers

Bifurcation and Symmetry

1992

engineering systems have played a crucial role in stimulating many of the modern developments in nonlinear and stochastic dynamics after 20 years of rapid progress in these areas this book provides an overview of the current state of nonlinear modeling and analysis for mechanical and structural systems this volume is a coherent compendium written by leading experts from the united states canada western and eastern europe and australia the 22 articles describe the background recent developments applications and future directions in bifurcation theory chaos perturbation methods stochastic stability stochastic flows random vibrations reliability disordered systems earthquake engineering and numerics the book gives readers a sophisticated toolbox that will allow them to tackle modeling problems in mechanical systems that use stochastic and nonlinear dynamics ideas an extensive bibliography and index ensure this volume will remain a reference standard for years to come

Constitutive Modelling of Granular Materials

2012-12-06

the year 1986 marked the sesquicentennial of the publication in 1836 of j sturm s memoir on boundary value problems for second order equations in july 1986 the canadian mathematical society sponsored the international conference on oscillation bifurcation and chaos this volume contains the proceedings of this conference

Bifurcation Analysis of Fluid Flows

2023-06-30

this book is devoted to the frequency domain approach for both regular and degenerate hopf bifurcation analyses besides showing that the time and frequency domain approaches are in fact equivalent the fact that many significant results and computational formulas obtained in the studies of regular and degenerate hopf bifurcations from the time domain approach can be translated and reformulated into the corresponding frequency domain setting and be reconfirmed and rediscovered by using the frequency domain methods is also explained the description of how the frequency domain approach can be used to obtain several types of standard bifurcation conditions for general nonlinear dynamical systems is given as well as is demonstrated a very rich pictorial gallery of local bifurcation diagrams for nonlinear systems under simultaneous variations of several system parameters in conjunction with this graphical analysis of local bifurcation diagrams the defining and nondegeneracy conditions for several degenerate hopf bifurcations is presented with a great deal of algebraic computation some higher order harmonic balance approximation formulas are derived for analyzing the dynamical behavior in small neighborhoods of certain types of degenerate hopf bifurcations that involve multiple limit cycles and multiple limit points of periodic solutions in addition applications in chemical mechanical and electrical engineering as well as in biology are discussed this book is designed and written in a style of research monographs rather than classroom textbooks so that the most recent contributions to the field can be included with references

Computational Modeling of Multiphase Geomaterials

2012-07-05

bifurcation control refers to the task of designing a controller that can modify the bifurcation properties of a given nonlinear system so as to achieve some desirable dynamical behaviors there exists no similar

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control theory oriented book available in the market that is devoted to the subject of bifurcation control written by control engineers for control engineers world renowned leading experts in the field provide their state of the art survey about the extensive research that has been done over the last few years in this subject the book is not only aimed at active researchers in the field of bifurcation control and its applications but also at a general audience in related fields

Powder and Grains 2001

2020-12-17

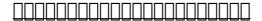
this book is devoted to the study of an effective frequency domain approach based on systems control theory to compute and analyze several types of standard bifurcation conditions for general continuous time nonlinear dynamical systems a very rich pictorial gallery of local bifurcation diagrams for such nonlinear systems under simultaneous variations of several system parameters is presented some higher order harmonic balance approximation formulas are derived for analyzing the oscillatory dynamics in small neighborhoods of certain types of hopf and degenerate hopf bifurcations the frequency domain approach is then extended to the large class of delay differential equations where the time delays can be either discrete or distributed for the case of discrete delays two alternatives are presented depending on the structure of the underlying dynamical system where the more general setting is then extended to the case of distributed time delayed systems some representative examples in engineering and biology are discussed

Nonlinear Dynamics and Stochastic Mechanics

2018-05-04

Oscillation, Bifurcation and Chaos

1987



1986

Hopf Bifurcation Analysis

1996

Bifurcation Control

2003-08-26

Frequency-domain Approach To Hopf Bifurcation Analysis: Continuous Timedelayed Systems

2019-10-07

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