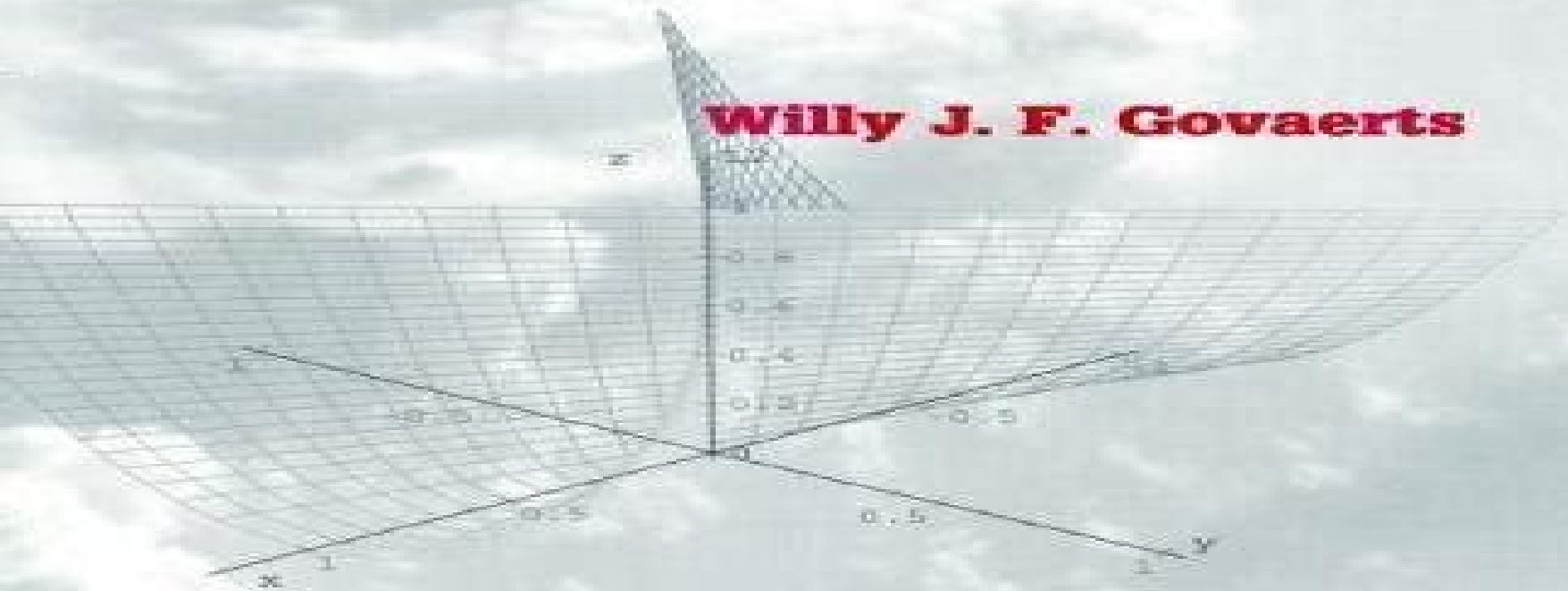


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Willy J. F. Govaerts



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Numerical methods for equilibrium bifurcations of dynamical systems Willy J. Govaerts, 2000 Numerical Continuation Methods for Dynamical Systems Bernd Krauskopf, Hinke M. Osinga, Jorge Galan-Vioque, 2007-11-06 Path following in combination with boundary value problem solvers has emerged as a continuing and strong influence in the development of dynamical systems theory and its application It is widely acknowledged that the software package AUTO developed by Eusebius J Doedel about thirty years ago and further expanded and developed ever since plays a central role in the brief history of numerical continuation This book has been compiled on the occasion of Sebius Doedel s 60th birthday Bringing together for the first time a large amount of material in a single accessible source it is hoped that the book will become the natural entry point for researchers in diverse disciplines who wish to learn what numerical continuation techniques can achieve The book opens with a foreword by Herbert B Keller and lecture notes by Sebius Doedel himself that introduce the basic concepts of numerical bifurcation analysis The other chapters by leading experts discuss continuation for various types of systems and objects and showcase examples of how numerical bifurcation analysis can be used in concrete applications Topics that are treated include interactive continuation tools higher dimensional continuation the computation of invariant manifolds and continuation techniques for slow fast systems for symmetric Hamiltonian systems for spatially extended systems and for systems with delay Three chapters review physical applications the dynamics of a SQUID global bifurcations in laser systems and dynamics and bifurcations in electronic circuits **Methods In Equivariant Bifurcations And**

Dynamical Systems Pascal Chossat, Reiner Lauterbach, 2000-02-28 This invaluable book presents a comprehensive introduction to bifurcation theory in the presence of symmetry an applied mathematical topic which has developed considerably over the past twenty years and has been very successful in analysing and predicting pattern formation and other critical phenomena in most areas of science where nonlinear models are involved like fluid flow instabilities chemical waves elasticity and population dynamics The book has two aims One is to expound the mathematical methods of equivariant bifurcation theory Beyond the classical bifurcation tools such as center manifold and normal form reductions the presence of symmetry requires the introduction of the algebraic and geometric formalism of Lie group theory and transformation group methods For the first time all these methods in equivariant bifurcations are presented in a coherent and self consistent way in a book The other aim is to present the most recent ideas and results in this theory in relation to applications This includes bifurcations of relative equilibria and relative periodic orbits for compact and noncompact group actions heteroclinic cycles

and forced symmetry breaking perturbations Although not all recent contributions could be included and a choice had to be made a rather complete description of these new developments is provided At the end of every chapter exercises are offered to the reader

Handbook of Dynamical Systems B. Fiedler, 2002-02-21 This handbook is volume II in a series collecting mathematical state of the art surveys in the field of dynamical systems Much of this field has developed from interactions with other areas of science and this volume shows how concepts of dynamical systems further the understanding of mathematical issues that arise in applications Although modeling issues are addressed the central theme is the mathematically rigorous investigation of the resulting differential equations and their dynamic behavior However the authors and editors have made an effort to ensure readability on a non technical level for mathematicians from other fields and for other scientists and engineers The eighteen surveys collected here do not aspire to encyclopedic completeness but present selected paradigms The surveys are grouped into those emphasizing finite dimensional methods numerics topological methods and partial differential equations Application areas include the dynamics of neural networks fluid flows nonlinear optics and many others While the survey articles can be read independently they deeply share recurrent themes from dynamical systems Attractors bifurcations center manifolds dimension reduction ergodicity homoclinicity hyperbolicity invariant and inertial manifolds normal forms recurrence shift dynamics stability to name just a few are ubiquitous dynamical concepts throughout the articles

Nonlinear Structures & Systems, Vol. 1 Matthew R.W. Brake, Ludovic Renson, Robert J. Kuether, Paolo Tiso, 2025-08-07 Nonlinear Structures Systems Volume 1 Proceedings of the 42nd IMAC A Conference and Exposition on Structural Dynamics 2024 the first volume of ten from the Conference brings together contributions to this important area of research and engineering The collection presents early findings and case studies on fundamental and applied aspects of Nonlinear Dynamics including papers on Experimental Nonlinear Dynamics Jointed Structures Identification Mechanics Dynamics Nonlinear Damping Nonlinear Modeling and Simulation Nonlinear Reduced Order Modeling Nonlinearity and System Identification

Nonlinear Dynamics and Chaos J Hogan, A.R Krauskopf, Mario di Bernardo, R. Eddie Wilson, Hinke. M Osinga, Martin. E Homer, Alan. R Champneys, 2002-08-01 Nonlinear dynamics has been successful in explaining complicated phenomena in well defined low dimensional systems Now it is time to focus on real life problems that are high dimensional or ill defined for example due to delay spatial extent stochasticity or the limited nature of available data How can one understand the dynamics of such sys

Parallel Computational Technologies Leonid Sokolinsky, Mikhail Zymbler, 2017-10-01 This book constitutes the refereed proceedings of the 11th International Conference on Parallel Computational Technologies PCT 2017 held in Kazan Russia in April 2017 The 24 revised full papers presented were carefully reviewed and selected from 167 submissions The papers are organized in topical sections on high performance architectures tools and technologies parallel numerical algorithms supercomputer simulation

Focus on Combustion Research Sung Z. Jiang, 2006 Combustion or burning is an exothermic reaction between a substance and a gas

to release heat Combustion normally occurs in oxygen often in the form of gaseous O_2 to form oxides However combustion can also take place in other gases like chlorine The products of such reactions usually include water H_2O as well as carbon monoxide CO or carbon dioxide CO_2 or both Other by products such as partially reacted fuel and elemental carbon C may generate visible smoke and soot This book presents leading research from around the world in this frontal field

Nonlinear Targeted Energy Transfer in Mechanical and Structural Systems Alexander F. Vakakis, Oleg V. Gendelman, Lawrence A. Bergman, D. Michael McFarland, Gaëtan Kerschen, Young Sup Lee, 2008-12-24 This monograph evolved over a period of nine years from a series of papers and presentations addressing the subject of passive vibration control of mechanical systems subjected to broadband transient inputs The unifying theme is Targeted Energy Transfer TET which represents a new and unique approach to the passive control problem in which a strongly nonlinear fully passive local attachment the Nonlinear Energy Sink NES is employed to drastically alter the dynamics of the primary system to which it is attached The intrinsic capacity of the properly signed NES to promote rapid localization of externally applied narrowband vibration or broadband shock energy to itself where it can be captured and dissipated provides a powerful strategy for vibration control and the opens the possibility for a wide range of applications of TET such as vibration and shock isolation passive energy harvesting aeroelastic instability utter suppression seismic mitigation vortex shedding control enhanced reliability designs for example in power grids and others The monograph is intended to provide a thorough explanation of the analytical computational and experimental methods needed to formulate and study TET in mechanical and structural systems Several practical engineering applications are examined in detail and experimental verification and validation of the theoretical predictions are provided as well The authors also suggest a number of possible future applications where application of TET seems promising The authors are indebted to a number of sponsoring agencies

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