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Eusebius Doedel Laurette S. Tuckerman

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Numerical Methods for Bifurcation Problems and Large-Scale Dynamical Systems



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Numerical Methods For Bifurcation Problems And Large Scale Dynamical Systems

**Eusebius Doedel, Laurette S.
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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

Wireless Communications Prathima Agrawal, Matthew D. Andrews, Philip J. Fleming, G. George Yin, Lisa Zhang, 2010-05-05 This volume contains papers based on invited talks given at the 2005 IMA Summer Workshop on Wireless Communications held at the Institute for Mathematics and Its Applications University of Minnesota June 22 July 1 2005 It presents some of the highlights of the workshop and collects papers covering a broad spectrum of important and pressing issues in wireless communications

Compatible Spatial Discretizations Douglas N. Arnold, Pavel B. Bochev, Richard B. Lehoucq, Roy A. Nicolaides, Mikhail Shashkov, 2007-01-26 The IMA Hot Topics workshop on compatible spatial discretizations was held in 2004 This volume contains original contributions based on the material presented there A unique feature is the inclusion of work that is representative of the recent developments in compatible discretizations across a wide spectrum of disciplines in computational science Abstracts and presentation slides from the workshop can be accessed on the internet

Spectral/hp Element Methods for Computational Fluid Dynamics George Karniadakis, Spencer Sherwin, 2013-01-10 Completely revised and expanded new edition covering the recent and significant progress in multi domain spectral methods at both the fundamental and application level Written by leading experts it is a must have for students academics and practitioners in computational fluid mechanics and related fields

Mathematical Approaches for Emerging and Reemerging Infectious Diseases: Models, Methods, and Theory Carlos Castillo-Chavez, Sally Blower, Pauline van den Driessche, Denise Kirschner, Abdul-Aziz Yakubu, 2012-12-06 This IMA Volume in Mathematics and its Applications MATHEMATICAL APPROACHES FOR EMERGING AND REEMERGING INFECTIOUS DISEASES MODELS AND THEORY METHODS is based on the proceedings of a successful one week workshop The proceedings of the two day tutorial which preceded the workshop Introduction to Epidemiology and Immunology appears as IMA Volume 125 Mathematical Approaches for Emerging and Reemerging Infectious Diseases An Introduction The tutorial and the workshop are integral parts of the September 1998 to June 1999 IMA program on MATHEMATICS IN BIOLOGY I would

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Multiple Time Scale Dynamics Christian Kuehn, 2015-02-25 This book provides an introduction to dynamical systems with multiple time scales The approach it takes is to provide an overview of key areas particularly topics that are less available in the introductory form The broad range of topics included makes it accessible for students and researchers new to the field to gain a quick and thorough overview The first of its kind this book merges a wide variety of different mathematical techniques into a more unified framework The book is highly illustrated with many examples and exercises and an extensive bibliography The target audience of this book are senior undergraduates graduate students as well as researchers interested in using the multiple time scale dynamics theory in nonlinear science either from a theoretical or a mathematical modeling perspective

Computational Modelling of Bifurcations and Instabilities in Fluid Dynamics Alexander Gelfgat, 2018-07-06 Instabilities of fluid flows and the associated transitions between different possible flow states provide a fascinating set of problems that have attracted researchers for over a hundred years This book addresses state of the art developments in numerical techniques for computational modelling of fluid instabilities and related bifurcation structures as well as providing comprehensive reviews of recently solved challenging problems in the field

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 - Chapter 2: Essential Elements of Numerical Methods For Bifurcation Problems And Large Scale Dynamical Systems
 - Chapter 3: Numerical Methods For Bifurcation Problems And Large Scale Dynamical Systems in Everyday Life
 - Chapter 4: Numerical Methods For Bifurcation Problems And Large Scale Dynamical Systems in Specific Contexts
 - Chapter 5: Conclusion
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