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Multiple-Time-Scale Dynamical Systems



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Maximilian Engel, Hildeberto Jard¢n-Kojakhmetov, Cinzia Soresina

Multiple Time Scale Dynamical Systems:

Multiple-Time-Scale Dynamical Systems Christopher K.R.T. Jones, Alexander I. Khibnik, 2012-12-06 Systems with sub processes evolving on many different time scales are ubiquitous in applications chemical reactions electro optical and neuro biological systems to name just a few This volume contains papers that expose the state of the art in mathematical techniques for analyzing such systems Recently developed geometric ideas are highlighted in this work that includes a theory of relaxation oscillation phenomena in higher dimensional phase spaces Subtle exponentially small effects result from singular perturbations implicit in certain multiple time scale systems Their role in the slow motion of fronts bifurcations and jumping between invariant tori are all explored here Neurobiology has played a particularly stimulating role in the development of these techniques and one paper is directed specifically at applying geometric singular perturbation theory to reveal the synchrony in networks of neural oscillators 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 guick 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 Topics in Multiple Time Scale Dynamics Maximilian Engel, Hildeberto Jard¢n-Kojakhmetov, Cinzia Soresina, 2024-10-21 This volume contains the proceedings of the BIRS Workshop Topics in Multiple Time Scale Dynamics held from November 27 December 2 2022 at the Banff International Research Station Banff Alberta Canada The area of multiple scale dynamics is rapidly evolving marked by significant theoretical breakthroughs and practical applications. The workshop facilitated a convergence of experts from various subdisciplines encompassing topics like blow up techniques for ordinary differential equations ODEs singular perturbation theory for stochastic differential equations SDE homogenization and averaging slow fast maps numerical approaches and network dynamics including their applications in neuroscience and climate science This volume provides a wide ranging perspective on the current challenging subjects being explored in the field including themes such as novel approaches to blowing up and canard theory in unique contexts complex multi scale challenges in PDEs and the role of stochasticity in Control and Dynamic Systems V30: Advances in Algorithms and Computational Techniques in multiple scale systems Dynamic System Control Part 3 of 3 C.T. Leonides, 2012-12-02 Control and Dynamic Systems Advances in Theory in Applications Volume 30 Advances in Algorithms and Computational Techniques in Dynamic Systems Control Part 3 of 3 discusses developments in algorithms and computational techniques for control and dynamic systems This volume begins

with the issue of decision making or optimal control in the natural environment It then discusses large scale systems composed of multiple sensors algorithms for systems with multiplicative noise stochastic differential games Markovian targets low cost microcomputer and true digital control systems and algorithms for the design of teleoperated systems This book is an important reference for practitioners in the field who want a comprehensive source of techniques with significant Nonlinear Dynamics and Chaos I Hogan, A.R Krauskopf, Mario di Bernado, 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 Continuous Time Modeling in the Behavioral and Related Sciences Kees van Montfort, Johan H.L. Oud, Manuel C. Voelkle, 2018-10-11 This unique book provides an overview of continuous time modeling in the behavioral and related sciences It argues that the use of discrete time models for processes that are in fact evolving in continuous time produces problems that make their application in practice highly questionable One main issue is the dependence of discrete time parameter estimates on the chosen time interval which leads to incomparability of results across different observation intervals Continuous time modeling by means of differential equations offers a powerful approach for studying dynamic phenomena yet the use of this approach in the behavioral and related sciences such as psychology sociology economics and medicine is still rare This is unfortunate because in these fields often only a few discrete time sampled observations are available for analysis e g daily weekly yearly etc However as emphasized by Rex Bergstrom the pioneer of continuous time modeling in econometrics neitherhuman beings nor the economy cease to exist in between observations In 16 chapters the book addresses a vast range of topics in continuous time modeling from approaches that closely mimic traditional linear discrete time models to highly nonlinear state space modeling techniques Each chapter describes the type of research questions and data that the approach is most suitable for provides detailed statistical explanations of the models and includes one or more applied examples To allow readers to implement the various techniques directly accompanying computer code is made available online The book is intended as a reference work for students and scientists working with longitudinal data who have a Master's or early PhD level knowledge of statistics Control and Dynamic Systems V27 C.T. Leonides, 2012-12-02 Control and Dynamic Systems Advances in Theory and Application Volume 27 System Identification and Adaptive Control Part 3 of 3 deals with system parameter identification and adaptive control It presents useful techniques for adaptive control systems This volume begins by presenting a powerful approach to multivariable model reference adaptive control based on the ideas and techniques of disturbance accommodating control theory It then discusses the modeling of biological systems optimal control for air conditioning systems linear programming for constrained multivariable process control finite element approximation development of irreducible state space singular

systems and discrete systems with multiple time scales This book is an important reference for practitioners in the field who want a comprehensive source of techniques with significant applied implications **Control and Dynamic Systems V38:** Advances in Aeronautical Systems C.T. Leonides, 2012-12-02 Advances in Aeronautical Systems shows that real time simulation of aeronautical systems is fundamental in the analysis design and testing of today s increasingly complex aeronautical systems Perhaps more important is the fact that simulation including 3 D vision and motion simulation techniques is an essential element in pilot training for both commercial and military aircraft An essential characteristic of all modern aeronautical systems is their avionics system which is composed of many elements in particular sensor systems This book comprises eight chapters with the first focusing on aircraft automatic flight control system with model inversion The following chapters then discuss information systems for supporting design of complex human machine systems and formulation of a minimum variance deconvolution technique for compensation of pneumatic distortion in pressure sensing devices Other chapters cover synthesis and validation of feedback guidance laws for air to air interceptions multistep matrix integrators for real time simulation the role of image interpretation in tracking and guidance continuous time parameter estimation analysis via a limiting ordinary differential equation and in flight alignment of inertial navigation systems This book will be of interest to practitioners in the fields of engineering and aeronautics **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 Math ematical 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 BI OLOGY I would like to thank Carlos Castillo Chavez Director of the Math ematical and Theoretical Biology Institute and a member of the Depart ments of Biometrics Statistics and Theoretical and Applied Mechanics Cornell University Sally M Blower Biomathematics UCLA School of Medicine Pauline van den Driessche Mathematics and Statistics Uni versity of Victoria and Denise Kirschner Microbiology and Immunology University of Michigan Medical School for their superb roles as organizers of the meetings and editors of the proceedings Carlos Castillo Chavez es pecially made a major contribution by spearheading the editing process I am also grateful to Kenneth L Cooke Mathematics Pomona College for being one of the workshop organizers and to Abdul Aziz Yakubu Mathe matics Howard University for serving as co editor of the proceedings I thank Simon A Levin Ecology and Evolutionary Biology Princeton Uni versity for providing an introduction Decision Making Under Uncertainty Claude Greengard, Andrzej Ruszczynski, 2012-12-06 In the ideal world major decisions would be made based on complete and reliable

information available to the decision maker We live in a world of uncertainties and decisions must be made from information which may be incomplete and may contain uncertainty The key mathematical question addressed in this volume is how to make decision in the presence of quantifiable uncertainty. The volume contains articles on model problems of decision making process in the energy and power industry when the available information is noisy and or incomplete The major tools used in studying these problems are mathematical modeling and optimization techniques especially stochastic optimization These articles are meant to provide an insight into this rapidly developing field which lies in the intersection of applied statistics probability operations research and economic theory It is hoped that the present volume will provide entry to newcomers into the field and stimulation for further research Atmospheric Modeling David P. Chock, Gregory R. Carmichael, 2002-07-31 This volume contains referred papers submitted by international experts who participated in the Atmospheric Modeling workshop March 15 19 2000 at the Institute for Mathematics and Its Applications IMA at the University of Minnesota The papers cover a wide range of topics presented in the workshop In particular mathematical topics include a performance comparison of operator splitting and non splitting methods time stepping methods to preserve positivity and consideration of multiple timescale issues in the modeling of atmospheric chemistry a fully 3D adaptive grid method impact of rid resolution on model predictions testing the robustness of different flow fields modeling and numerical methods in four dimensional variational data assimilation and parallel computing Modeling topics include the development of an efficient self contained global circulation chemistry transport model and its applications the development of a modal aerosol model and the modeling of the emissions and chemistry of monoterpenes that lead to the formation of secondary organic aerosols. The volume provides an excellent cross section of current research activities in atmospheric modeling **Membrane Transport and Renal Physiology** Harold E. Layton, Alan M. Weinstein, 2002-08-06 The papers in this volume arose out of the workshop Membrane Transport and Renal Physiology which was conducted as part of the IMA 1998 1999 program year Mathematics in Biology The workshop brought together physiologists biophysicists and applied mathematicians who share a common interest in solute and water transport in biological systems especially in the integrated function of the kidney Solute and water transport through cells involves fluxes across two cell membranes usually via specialized proteins that are integral membrane components By means of mathematical representations transport fluxes can be related to transmembrane solute concentrations and electrochemical driving forces At the next level of functional integration these representations can serve as key components for models of renal transcellular transport Ultimately simulations can be developed for transport dependent aspects of overall renal function Workshop topics included solute fluxes through ion channels cotransporters and metabolically driven ion pumps transport across fiber matrix and capillary membranes coordinated transport by renal epithelia the urine concetrating mechanism and intra renal hemodynamic control This volume will be of interest to biological and mathematical scientists who would like a view of recent mathematical efforts to represent membrane transport and its

role in renal function Bifurcation without Parameters Stefan Liebscher, 2014-11-08 Targeted at mathematicians having at least a basic familiarity with classical bifurcation theory this monograph provides a systematic classification and analysis of bifurcations without parameters in dynamical systems Although the methods and concepts are briefly introduced a prior knowledge of center manifold reductions and normal form calculations will help the reader to appreciate the presentation Bifurcations without parameters occur along manifolds of equilibria at points where normal hyperbolicity of the manifold is violated The general theory illustrated by many applications aims at a geometric understanding of the local dynamics near **Complex Dynamical Systems in Education** Matthijs Koopmans, Dimitrios Stamovlasis, 2016-02-19 This book capitalizes on the developments in dynamical systems and education by presenting some of the most recent advances in this area in seventeen non overlapping chapters. The first half of the book discusses the conceptual framework of complex dynamical systems and its applicability to educational processes. The second half presents a set of empirical studies that that illustrate the use of various research methodologies to investigate complex dynamical processes in education and help the reader appreciate what we learn about dynamical processes in education from using these approaches Neurons, Networks, and Motor Behavior Paul S. G. Stein, 1997 Recent advances in motor behavior research rely on detailed knowledge of the characteristics of the neurons and networks that generate motor behavior At the cellular level Neurons Networks and Motor Behavior describes the computational characteristics of individual neurons and how these characteristics are modified by neuromodulators At the network and behavioral levels the volume discusses how network structure is dynamically modulated to produce adaptive behavior Comparisons of model systems throughout the animal kingdom provide insights into general principles of motor control Contributors describe how networks generate such motor behaviors as walking swimming flying scratching reaching breathing feeding and chewing An emerging principle of organization is that nervous systems are remarkably efficient in constructing neural networks that control multiple tasks and dynamically adapt to change The volume contains six sections selection and initiation of motor patterns generation and formation of motor patterns cellular and systems properties generation and formation of motor patterns computational approaches modulation and reconfiguration short term modulation of pattern generating circuits and sensory modification of motor output to control whole body orientation **Integrated Energy System Modeling and Simulation** Haoyong Chen, Huaguang Yan, Guixiong He, 2025-05-02 This book provides an in depth introduction to the dynamic characteristics of Integrated Energy Systems IES It establishes a unified energy network model elucidating the complementarities between various forms of energy the conversion efficiencies and the interactions and influences on operating costs The book proposes methods for the planning configuration and operational control of IES and develops a simulation system for the integration of multi physical field analog hybrid transient and steady state conditions The established mathematical models and simulation system are utilized to conduct a series of analyses under typical integrated energy scenarios. These analyses evaluate the

operational performance and economic benefits of IES across different conditions. This book serves as a valuable resource for professionals involved in the research planning design consulting research and development and operation of businesses related to integrated energy systems. It also serves as an essential reference for educators and college students. *Nonlinear Conservation Laws and Applications* Alberto Bressan, Gui-Qiang G. Chen, Marta Lewicka, Dehua Wang, 2011-04-19. This volume contains the proceedings of the Summer Program on Nonlinear Conservation Laws and Applications held at the IMA on July 13. 31. 2009. Hyperbolic conservation laws is a classical subject which has experienced vigorous growth in recent years. The present collection provides a timely survey of the state of the art in this exciting field and a comprehensive outlook on open problems. Contributions of more theoretical nature cover the following topics global existence and uniqueness theory of one dimensional systems multidimensional conservation laws in several space variables and approximations of their solutions mathematical analysis of fluid motion stability and dynamics of viscous shock waves singular limits for viscous systems basic principles in the modeling of turbulent mixing transonic flows past an obstacle and a fluid dynamic approach for isometric embedding in geometry models of nonlinear elasticity the Monge problem and transport equations with rough coefficients In addition there are a number of papers devoted to applications. These include models of blood flow self gravitating compressible fluids granular flow charge transport in fluids and the modeling and control of traffic flow on networks

Nonlinear Time Scale Systems in Standard and Nonstandard Forms Anshu Narang-Siddarth, John Valasek, 2014-01-01 This book introduces key concepts for systematically controlling engineering systems that possess interacting phenomena occurring at widely different speeds The aim is to present the reader with control techniques that extend the benefits of model reduction of singular perturbation theory to a larger class of nonlinear dynamical systems New results and relevant background are presented through insightful examples that cover a wide range of applications from different branches of engineering This book is unique because it presents a new perspective on existing control methods and thus broadens their application to a larger class of nonlinear dynamical systems discusses general rather than problem specific developments to certain applications or disciplines in order to provide control engineers with useful analytical tools addresses new control problems using singular perturbation methods including closed form results for control of nonminimum phase systems

Nonlinear Dynamics, Volume 1 Gan Kerschen, 2025-08-07 Nonlinear Dynamics Volume 1 Proceedings of the 33rd IMAC A Conference and Exposition on Balancing Simulation and Testing 2015 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 Structural Dynamics including papers on Nonlinear Oscillations Nonlinear Simulation Using Harmonic Balance Nonlinear Modal Analysis Nonlinear System Identification Nonlinear Modeling Simulation Nonlinearity in Practice Nonlinear Systems Round Robin on Nonlinear System Identification

Bursting: The Genesis Of Rhythm In The Nervous System Steve Coombes, Paul Bressloff, 2005-10-03 Neurons in the

brain communicate with each other by transmitting sequences of electrical spikes or action potentials One of the major challenges in neuroscience is to understand the basic physiological mechanisms underlying the complex spatiotemporal patterns of spiking activity observed during normal brain functioning and to determine the origins of pathological dynamical states such as epileptic seizures and Parkinsonian tremors A second major challenge is to understand how the patterns of spiking activity provide a substrate for the encoding and transmission of information that is how do neurons compute with spikes It is likely that an important element of both the dynamical and computational properties of neurons is that they can exhibit bursting which is a relatively slow rhythmic alternation between an active phase of rapid spiking and a quiescent phase without spiking This book provides a detailed overview of the current state of the art in the mathematical and computational modeling of bursting with contributions from many of the leading researchers in the field

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