Dynamics Of Very High Dimensional Systems

Vladimir G. Ivancevic,Tijana T. Ivancevic

Dynamics Of Very High Dimensional Systems:

   Dynamics of Very High Dimensional Systems E. H. Dowell,Deman Tang,2003 Many books on dynamics start with a discussion of systems with one or two degrees of freedom and then turn to the generalization to the case of many degrees of freedom For linear systems the concept of eigenfunctions provides a compact and elegant method for decomposing the dynamics of a high dimensional system into a series of independent single degree of freedom dynamical systems Yet when the system has a very high dimension the determination of the eigenfunctions may be a distinct challenge and when the dynamical system is nonconservative and or nonlinear the whole notion of uncoupled eigenmodes requires nontrivial extensions of classical methods These issues constitute the subject of this book   **Dynamics Of Very High Dimensional Systems** Earl H. Dowell,2003   Artificial Cognitive Systems David Vernon,2024-08-20 A concise introduction to a complex field bringing together recent work in cognitive science and cognitive robotics to offer a solid grounding on key issues This book offers a concise and accessible introduction to the emerging field of artificial cognitive systems Cognition both natural and artificial is about anticipating the need for action and developing the capacity to predict the outcome of those actions Drawing on artificial intelligence developmental psychology and cognitive neuroscience the field of artificial cognitive systems has as its ultimate goal the creation of computer based systems that can interact with humans and serve society in a variety of ways This primer brings together recent work in cognitive science and cognitive robotics to offer readers a solid grounding on key issues The book first develops a working definition of cognitive systems broad enough to encompass multiple views of the subject and deep enough to help in the formulation of theories and models It surveys the cognitivist emergent and hybrid paradigms of cognitive science and discusses cognitive architectures derived from them It then turns to the key issues with chapters devoted to autonomy embodiment learning and development memory and prospection knowledge and representation and social cognition Ideas are introduced in an intuitive natural order with an emphasis on the relationships among ideas and building to an overview of the field The main text is straightforward and succinct sidenotes drill deeper on specific topics and provide contextual links to further reading   A mathematical modeling framework to simulate and analyze cell type transitions Daniella Schittler,2015-03-20 The quantitative understanding of changes in cell types referred to as cell type transitions is fundamental to advance fields such as stem cell research immunology and cancer therapies This thesis provides a mathematical modeling framework to simulate and analyze cell type transitions The novel methodological approaches and models presented here address diverse levels which are essential in this context Gene regulatory network models represent the cell type determining gene expression dynamics Here a novel construction method for gene regulatory network models is introduced which allows to transfer results from generic low dimensional to realistic high dimensional gene regulatory network models For populations of cells a generalized model class is proposed that accounts for multiple cell types division numbers and the full label distribution Analysis and solution methods are presented

for this new model class which cover common cell population experiments and allow to exploit the full information from data The modeling and analysis methods presented here connect formerly isolated approaches and thereby contribute to a holistic framework for the quantitative understanding of cell type transitions   **Mathematics of Climate Change** ,2007

   Physics-informed Model Reduction of Dynamical Systems Subjected to Impacts and Discontinuity Suparno Bhattacharyya,2022 Simulating the dynamics of large scale complex spatio temporal systems requires prohibitively expensive computational resources Moreover the high dimensional dynamics of such systems often lacks physical interpretability However the intrinsic dimensionality of the dynamics often remains quite low meaning that the dynamics remains embedded in a low dimensional attractor or manifold in a high dimensional state space Leveraging this phenomenon in model order reduction reduced order models ROMs with low dimensional states are derived that can approximate the high dimensional dynamics of large scale systems with reasonable accuracy In this thesis we study the model reduction of structural systems subjected to impact and nonsmooth boundary conditions using proper Orthogonal Decomposition POD a data driven projection based dimension reduction technique The dynamics of structural systems is typically characterized by partial differential equations PDEs which are often impossible to solve analytically A direct attempt to numerically solve these PDEs to obtain approximate solutions leads to extremely high dimensional systems of ordinary differential equations ODEs The larger the dimensionality of the system of ODEs the greater is the accuracy of the approximate solution As a result often the dimensionality of a problem is artificially inflated to achieve a more accurate solution even though the intrinsic dimensionality of the original system is much lower making the problem computationally intractable However data from such high dimensional systems often exhibit certain dominant patterns which are representative of the underlying low dimensional dynamics POD identifies these low dimensional embedded patterns based on the dominant correlations present in the data and determines a subspace that contains the data to a desired level of accuracy This subspace is spanned by a set of basis functions known as proper orthogonal modes POMs Mathematically the POMs are constructed such that along those the variance of the data is maximized A certain number of POMs are chosen to form a reduced subspace onto which the high dimensional model of the system is projected yielding a reduced order model that can parsimoniously describe the dynamics of the high dimensional system A major part of my research addresses the question of how best to determine the number of POMs to be selected which is also the dimension of the ROM In standard implementations of POD this is decided such that a predefined percentage of the total data variance is captured However a fundamental problem with variance based mode selection is that it is difficult a priori to determine the percentage of total variance that will lead to an accurate ROM Furthermore the needed percentage of variance can differ widely from one system to the next or even from one steady state solution to another There are two main reasons for this First POD is essentially a projection based technique that ensures optimal reduction in a mean square statistical sense of high dimensional data However such projection optimality does not

ensure the accuracy of a ROM This is because second the variance of a data set or any portion of it in a reduced subspace has no direct connection with the dynamics of the system generating it In particular dynamically important modes that have small variance can still play a crucial role in transporting energy in and out of the system The neglect of such small variance degrees of freedom can result in a ROM with behavior that significantly deviates from the true system dynamics A specific aim of our work was to go beyond merely statistical characterizations to gain a physics based understanding of why in specific cases a given dimension of the reduced subspace is required for an accurate ROM We were particularly interested in dynamical systems that are subjected to nonsmooth loading conditions such as impacts or that have nonsmooth constitutive behavior such as piecewise linear springs Such features typically result in numerous modes being excited in the system dynamics While performing model reduction of such systems it is essential to include all dynamically important modes We studied the model reduction of an Euler Bernoulli beam that was subjected to periodic impacts using a semi analytical approach It was observed that using the conventional variance based mode selection criterion yielded ROMs with substantial inaccuracies for impulsive loading conditions with a maximum of 5% relative displacement error and 50% relative velocity error However selecting the number of POMs required to achieve energy balance on the corresponding reduced subspace the span of the selected POMs gave ROMs with errors that were smaller by approximately three orders of magnitude These ROMs properly reflect the energetics of the full system resulting in simulations that accurately represent the system s true behavior With variance based mode selection in principle one may always formulate ROMs with any desired accuracy simply by increasing the reduced subspace dimension by trial and error However such an approach does not provide any insight as to why this needs to be done in specific cases The energy closure method provides this physical insight We further studied the general application of this energy closure criterion using discrete data with and without measurement noise as typically gathered in experiments or numerical simulations We used the same model of the periodically kicked Euler Bernoulli beam and formulated ROMs by applying POD to the steady state discrete displacement field obtained from numerical simulations of the beam An alternative approach to quantifying the degree of energy closure was derived In this approach the convergence of energy input to or dissipated from the system was obtained as a function of the subspace dimension and the dimension capturing a predefined percentage of either energy is selected as the ROM dimension This was in agreement with our prior idea of selecting the ROM dimension by ensuring a balance between the energy dissipation and input on the subspace since the steady state dynamics guarantees that an accurate estimate of either quantity will automatically lead to a balance between the two This new metric for quantifying the degree of energy closure was however found to be more robust to data discretization error and measurement noise while also being easier to interpret The data processing necessary for implementing the new metric was discussed in detail We showed that ROMs from the simulated data using our approach formulated accurately captured the dynamics of the beam for different sets of parameter values Finally we implemented this

new metric to estimate energy closure for the model order reduction of an experimental system consisting of a magnetically kicked nonlinear flexible oscillator This was a piecewise linear globally nonlinear system and exhibited a wide range of dynamical behaviors periodic quasi periodic and chaotic Furthermore the nonsmooth nature of the forcing and the boundary conditions excited a large number of modes in the system For high fidelity simulations we approximated the dynamics of the oscillator using linear models with 25 degrees of freedom By applying POD on the discrete displacement data obtained from the simulations and using the energy closure criterion we were able to formulate a single ROM with only 6 degrees of freedom which accurately captured the different dynamical steady states shown by the original system More importantly it was observed that ROM was able to preserve the bifurcation structure of the system We have thus shown how a physics informed understanding of estimating ROM dimension can lead to accurate reduced order models in linear and nonlinear structural vibration problems **Journal of Dynamic Systems, Measurement, and Control** ,1996 Publishes theoretical and applied original papers in dynamic systems Theoretical papers present new theoretical developments and knowledge for controls of dynamical systems together with clear engineering motivation for the new theory Applied papers include modeling simulation and corroboration of theory with emphasis on demonstrated practicality *Physical Review* ,1999-06 Publishes papers that report results of research in statistical physics plasmas fluids and related interdisciplinary topics There are sections on 1 methods of statistical physics 2 classical fluids 3 liquid crystals 4 diffusion limited aggregation and dendritic growth 5 biological physics 6 plasma physics 7 physics of beams 8 classical physics including nonlinear media and 9 computational physics **High-Dimensional Chaotic and Attractor Systems** Vladimir G. Ivancevic,Tijana T. Ivancevic,2007-02-06 This graduate level textbook is devoted to understanding prediction and control of high dimensional chaotic and attractor systems of real life The objective is to provide the serious reader with a serious scientific tool that will enable the actual performance of competitive research in high dimensional chaotic and attractor dynamics From introductory material on low dimensional attractors and chaos the text explores concepts including Poincar s 3 body problem high tech Josephson junctions and more *Nonlinear Dynamics of Production Systems* Günter Radons,Reimund Neugebauer,2004 This reference work provides a comprehensive insight into the recent developments of applications of Nonlinear Dynamics in the field of production systems Applications range from manufacturing and process engineering to selected topics in mechanical engineering automation technology and plant management This compilation of contributions shows how methods of Nonlinear Dynamics can be used to solve problems arising in traditional or non conventional manufacturing techniques such as turning high speed milling laser welding jet cutting or electrochemical processing Recent progress in optimizing the dynamics of production lines and complete production systems is also covered The book addresses both experts in Nonlinear Dynamics who want to apply their methods to real world problems and practitioners who seek solutions for their engineering problems   Center for Complex Systems Research Technical Report ,1991   International Aerospace Abstracts ,1997

Collective Phenomena of Coupled Lattice Maps James David Keeler,1987   Satellite Power Systems (SPS) Concept Definition Study (exhibit D): Systems engineering Gerald Michael Hanley,1981   *American Book Publishing Record* ,2003   **Status Report on Speech Research** ,1988   *Proceedings of the ASME Conference on Smart Materials, Adaptive Structures, and Intelligent Systems* ,2008   *The Fifth NASA/DOD Controls-Structures Interaction Technology Conference, Part 2* ,1993   **Mathematical Reviews** ,2007   **Proceedings** ,1997

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