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Abstract

This paper reviews some recent results in applying singular perturbations theory to obtain simplified power system models for analysis and control design. The topics include synchronous machine modeling, decomposition and aggregation of large power networks, aggregation of higher order dynamic models, and transient stability analysis using direct methods. The objective is to introduce power system engineers to singular perturbations as a tool for enhancing the understanding of time-scale dynamics and analytically deriving reduced models in power systems.

1. Introduction

Power system dynamic analysis encompasses a wide time span of responses, ranging from lightning phenomena in microseconds to automatic generation control over periods of minutes [1]. Within the time span of stability analysis, there are time scales arising from the various speeds of responses of different devices such as synchronous machines and excitation systems [2], as well as from the interconnections of large power systems [3]. Including all aspects of time scales in a stability analysis for a large system not only results in an enormous computational burden, but also complicates the interpretation of the outcome.

There are two main approaches of using time scales to reduce computational burden and extract relevant information in a stability analysis. The first is a class of simulation techniques in which a variable step size is used in conjunction with an implicit integration routine [4,5] - the fast transients from a disturbance are simulated with a small step size, while the subsequent slower transients are simulated with a larger step size. The second approach includes model reduction techniques which, until recently, are largely based on empirical means [6-9]. The objective of this paper is to review recent results from singular perturbations as a means to obtain reduced models on both empirical and analytical bases [17,21,28,33,36].

Singular perturbations are most conveniently performed on two-time-scale systems in the "explicit" form

$$\begin{aligned}\dot{x} &= f(x, z, \epsilon) \quad , \quad x(t_0) = x_0 \quad , \\ \epsilon \dot{z} &= g(x, z, \epsilon) \quad , \quad z(t_0) = z_0 \quad ,\end{aligned}\tag{1.1}$$

where x is the n -dimensional slow variables, and $\epsilon > 0$ is the singular perturbation parameter multiplying the time derivative of the m -dimensional fast variables z . Not all models of power systems with time scales are given as in (1.1). Thus, the first task of time-scale modeling is to identify ϵ , which could be due to ratios of small and large time constants, strayed and linkage inductances, or weak and strong connections, and to formulate physical transformations to obtain the slow and fast variables. Once the two-time-scale system is in the form (1.1), an n -dimensional slow subsystem can be obtained from (1.1) by setting $\epsilon = 0$, while an m -dimensional fast subsystem can be obtained to model the fast transients of z from its "quasi-steady" state. An application of this reduced order modeling to a synchronous machine model will be illustrated in the next section. Interested readers can refer to [10,11] for a survey of singular perturbations techniques.

The organization of the remainder of the paper is as follows. In Section 2, singular perturbations techniques are systematically applied to obtain reduced order models of synchronous machines. In Section 3, the time scale properties arising from interconnections of machines are exploited to produce models for studying system-wide and local dynamics. Section 4 examines reduced models including machine fluxes and excitation systems. Section 5 extends the results in Section 3 to transient stability analysis of large power systems. Because of space, we provide only a brief discussion of these results. Interested readers are referred to some of the cited references.

2. Systematic Reduced Order Modeling of Machines

Time scale modeling can be performed at both the system and device level. Since system level modeling normally requires simple device models, the starting point for system analysis is usually the selection of an appropriate reduced order device model. In this section, the theory of singular perturbations is used to systematically produce reduced order models of machines. While the synchronous machine has been widely studied, it is rich in time scale properties yet to be fully

Singular Perturbations In Elasticity Theory Analysis And Its Applications

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1. Understanding the eBook Singular Perturbations In Elasticity Theory Analysis And Its Applications
 - The Rise of Digital Reading Singular Perturbations In Elasticity Theory Analysis And Its Applications
 - Advantages of eBooks Over Traditional Books
2. Identifying Singular Perturbations In Elasticity Theory Analysis And Its Applications
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Singular Perturbations In Elasticity Theory Analysis And Its Applications
 - User-Friendly Interface
4. Exploring eBook Recommendations from Singular Perturbations In Elasticity Theory Analysis And Its Applications
 - Personalized Recommendations
 - Singular Perturbations In Elasticity Theory Analysis And Its Applications User Reviews and Ratings

- Singular Perturbations In Elasticity Theory Analysis And Its Applications and Bestseller Lists
- 5. Accessing Singular Perturbations In Elasticity Theory Analysis And Its Applications Free and Paid eBooks
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 - Singular Perturbations In Elasticity Theory Analysis And Its Applications Budget-Friendly Options
- 6. Navigating Singular Perturbations In Elasticity Theory Analysis And Its Applications eBook Formats
 - ePub, PDF, MOBI, and More
 - Singular Perturbations In Elasticity Theory Analysis And Its Applications Compatibility with Devices
 - Singular Perturbations In Elasticity Theory Analysis And Its Applications Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Singular Perturbations In Elasticity Theory Analysis And Its Applications
 - Highlighting and Note-Taking Singular Perturbations In Elasticity Theory Analysis And Its Applications
 - Interactive Elements Singular Perturbations In Elasticity Theory Analysis And Its Applications
- 8. Staying Engaged with Singular Perturbations In Elasticity Theory Analysis And Its Applications
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Singular Perturbations In Elasticity Theory Analysis And Its Applications
- 9. Balancing eBooks and Physical Books Singular Perturbations In Elasticity Theory Analysis And Its Applications
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Singular Perturbations In Elasticity Theory Analysis And Its Applications
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Singular Perturbations In Elasticity Theory Analysis And Its Applications
 - Setting Reading Goals Singular Perturbations In Elasticity Theory Analysis And Its Applications
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Singular Perturbations In Elasticity Theory Analysis And Its Applications
 - Fact-Checking eBook Content of Singular Perturbations In Elasticity Theory Analysis And Its Applications
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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