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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.

Multiple Time-Scale Dynamical Systems | Institute for ...

Many physical problems, particularly in chemical and biological systems, involve processes that occur on widely varying time scales. The resulting model is a system that has a singular perturbation character.

Analyzing Multiple Time Scales in Two-Dimensional Fluids ...

Dynamical systems theory is well suited to answer these types of questions since invariant families of solutions often appear to organize the dynamics, effectively creating the multiple time scales and observed asymptotic behavior [3, 5]. In simple settings, invariant manifolds [4, 9] can even characterize this organization.

Multiple-Time-Scale Dynamical Systems - goodreads.com

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

Neural Computations in a Dynamical System with Multiple ...

where τ is the time scale of STF and the parameter controls the amplitude of the STF effect. The variable $f(x, t)$ increases with neuronal firing rate, whose minimum value is f_{\min} and maximum value is 1. Short-term depression in recurrent connection. The variable $p(x, t)$ on the right-hand side of Equation (1) represents STD in recurrent interactions, whose dynamic is given by $d p$

Time-scale calculus - Wikipedia

In mathematics, time-scale calculus is a unification of the theory of difference equations with that of differential equations, unifying integral and differential calculus with the calculus of finite differences, offering a formalism for studying hybrid discrete continuous dynamical systems.

Stochastic Averaging of Dynamical Systems with Multiple ...

The multiple Hasselmann models form a hierarchy of models ordered by the time scales over which they are expected to provide good approximations to the slowly evolving variables. Adaptable

Stochastic averaging of dynamical systems with multiple ...

with multiple time scales, replacing fast variables with statistically equivalent stochastic processes in order to analyze variables evolving on the slow time scale. These procedures have been studied extensively for systems driven by

Multiple time-scale power system dynamic simulation

The dynamic simulation of power system may involve a time scale from seconds to minutes, even hours, it is necessary to combine short-term and long-term analysis in a single program [1].

Multiple Time Scale Systems, Time and Modeling - ScienceDirect

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A hybrid evolutionary algorithm for the symbolic modeling ...

informally using the multiple-time-scale dynamical system shown in Fig. 3. For the purposes of this explanation, it will be assumed that both the hare (h) and lynx (l) data are measured and that the task of finding a model $dh/dt = f(h, l, t)$ can be considered separately from the task of finding a model $dl/dt = f(h, l, t)$. In other words, the modeling problem is partitioned and numerical