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Identification Of Weakly Nonlinear Systems

The nonlinear system can be approximated at each excitation frequency by an equivalent linear system. This approximation leads to calculation of the first-order describing functions. By having the experimental describing functions calculated and the system's responses corresponding to the nonlinear element (measured or interpolated), nonlinear parameter identification can be performed.

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the system's responses corresponding to the nonlinear element (measured or interpolated), nonlinear parameter identification can be...

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Identification of Weakly Nonlinear Systems Using Describing Function Inversion H. Jalali & B.T. Bonab & H. Ahmadian
Received: 20 December 2009 /Accepted: 31 May 2010 /Published online: 23 July 2010 # Society for Experimental Mechanics 2010
Abstract In this paper describing functions inversion is used and the restoring force of a nonlinear element in a

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Hill, TL, Green, PL, Cammarano, A & Neild, SA 2016, 'Fast Bayesian identification of a class of elastic weakly nonlinear systems using backbone curves', Journal of Sound and Vibration,

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vol. 360, pp. 156-170.

Fast Bayesian identification of a class of elastic weakly ...

Fast Bayesian identification of a class of elastic weakly nonlinear systems using backbone curves Author links open overlay panel T.L. Hill a P.L. Green b A. Cammarano c S.A. Neild a Show more

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Chapter 3 extends the algebraic parameter identification approach to a class of nonlinear systems where the vector of unknown parameters is weakly linearly identifiable. In general, the applicability of the algebraic approach for parameter identification is constrained to the availability of some of the state vector components.

Algebraic Parameter Identification in Nonlinear Systems

...

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A strongly nonlinear rotor-bearing system often has multiple solutions under harmonic excitations and jump phenomena. For example, a hardening nonlinearity may include a jump-down

Parameter Identification of a Strongly Nonlinear Rotor ...

This section describes a common system identification problem for a harmonically excited cantilevered beam as an example of a weakly nonlinear second-order system. A lumped parameter model of the transverse vibration of the beam tip serves as the model for the experimental system identification processes that are described in the following sections.

System identification of lumped parameter models for ...

Nonlinear System Identification: NARMAX Methods in the Time, Frequency, and Spatio-Temporal Domains describes a comprehensive framework for the identification and analysis of nonlinear dynamic systems in the time, frequency, and spatio-

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temporal domains.

Nonlinear System Identification | Wiley Online Books

Worst-case identification of nonlinear fading memory systems

Worst-case identification of nonlinear fading memory systems

The aim of system identification consists in developing a parametric or nonparametric model purely from measured I/O-data of a real system that reproduces the static and dynamic I/O-behavior of the latter subject to external influences as accurately as possible, even for the case of noise corrupted data. Nonlinear system models are usually

Identification of Nonlinear Systems

A nonlinear system is defined as any system that is not linear, that is any system that does not satisfy the superposition

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principle. This negative definition tends to obscure that there are very many different types of nonlinear systems.

Nonlinear system identification - Wikipedia

Physical System Is Weakly Nonlinear From physical insight or data analysis, you might know that a system is weakly nonlinear. In such cases, you can estimate a linear model and then use this model as an initial model for nonlinear estimation.

About Identified Nonlinear Models - MATLAB & Simulink

Structural and parametric identification of nonlinear continuous dynamic systems with a closed cycle on a set of continuous block-oriented models with feedback is considered. The method of structural identification in the steady state based on the observation of the system's input and output variables at the input periodic influences is proposed.

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IDENTIFICATION OF NONLINEAR CONTINUOUS DYNAMIC SYSTEMS ...

Though weak signals can be possibly detected using chaotic characteristics of nonlinear system responses, subsequent identification of the signal remains a problem since chaos itself means...

New Type of Spectral Nonlinear Resonance Enhances ...

An asymptotic theory is developed for a weakly identified cointegrating regression model in which the regressor is a nonlinear transformation of an integrated process. Weak identification arises from the presence of a loading coefficient for the nonlinear function that may be close to zero. In that case, standard nonlinear cointegrating limit theory does not provide good approximations to ...

Nonlinear Cointegrating Regression under Weak

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Identification

This manuscript deals with two general systems of nonlinear ordered variational inclusion problems. We also construct some new iterative algorithms for finding approximation solutions to the general systems of nonlinear ordered variational inclusions and prove the convergence of the sequences obtained by the schemes.

New generalized systems of nonlinear ordered variational

...

In the absence of a complete physics-based description of a system, system identification (SI) is able to obtain the missed information of nonstationary pattern for the unknown system.

Nonlinear time-varying vibration system identification ...

Fluidelastic systems are often lightly damped and exhibit weak nonlinear damping. The weak linear and nonlinear damping

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forces have a significant effect on the long-term behaviour of the system. However, parameter identification methods tend to concentrate on identifying the strongest forces.

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