

nonlinear system identification pdf

Related Work -The subject of obtaining a representation of a dynamical system from its input- output data is known as system identification [7, 8] or model learning [9].

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CONTROL SYSTEMS, ROBOTICS, AND AUTOMATION - Vol. VI - Identification of Nonlinear Systems - H. Unbehauen ©Encyclopedia of Life Support Systems (EOLSS) Table 1. Some typical nonlinearities The dynamic behavior of a mathematical model can be characterized by a parametric, nonparametric or semi-parametric description.

Identification of Nonlinear Systems

Fifteen years ago, nonlinear system identification was a field of several ad-hoc approaches, each applicable only to a very restricted class of systems. With the advent of neural networks, fuzzy models, and modern structure optimization techniques a much wider class of systems can be handled.

Nonlinear System Identification - From Classical

Three different methods are proposed for the parametric identification of non-linear systems. All these methods extract the non-linear restoring force, identify the location of non-linearity, and finally estimate the non-linear parameters via a genetic algorithm optimization. The first method uses an FE model of the underlying

STRATEGIES FOR NON LINEAR SYSTEM IDENTIFICATION

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