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5.7 Grey-box

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It has been developed
using
MATLAB/SIMULINK.
The main objective of
the simulation
modeling and system
identification for
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servo valve is to
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performance of its dynamic and nonlinear behavior.

The identified model has been found to be a third-order continuous time model. The

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In recent publications,
various hydraulic
system modeling
software tools have
been applied to model
hydraulic systems [18,
46, 51–53, 57]. These
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tools feature graphical modeling capabilities so that a user can easily construct a system model by arranging components in a physically representative manner.

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identification of a hydraulic circuit for clutch actuation in automatic

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The examined hydraulic servo-system's function is to provide the necessary pressure and volume flow for clutch actuation without usage of a hydraulic accumulator.

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In the hydraulic servo drive appear structural

nonlinearities which cause that designing nonlinear control of the position and power system is hampered. In the article a mathematical model of the servo drive hydraulic control was described. It is

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Some novel
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estimate Nonlinear
Output Error (NOE)
models using TS
fuzzy models for a
class of nonlinear
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their outputs is presented in this dissertation. Instead of using unrealistic assumptions about uncertainty, the most common of which is normality, the proposed methodology tends to capture effects caused by the real uncertainty observed in the data. The

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methodology requires that the identification method must be repeated offline a number of times under similar conditions. This leads to multiple inputoutput time series from the underlying system. These time series are preprocessed using the techniques of statistics and

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probability theory to generate the envelopes of response at each time instant. By incorporating interval data in fuzzy modelling and using the theory of symbolic interval-valued data, a TS fuzzy model with interval antecedent and consequent parameters is

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obtained. The proposed identification algorithm provides for a model for predicting the center-valued response as well as envelopes as the measure of uncertainty in system output.

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methods, mathematical relationships and modeling equations are presented for each component. A methodology for system level modeling and simulation is also presented. Numerous examples and worked sample problems are included.

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and researchers working in the domain for designing sliding mode controllers. The book is also useful to professional engineers working in the field to design robust controllers for various applications.

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Artificial Neural Networks provides new approaches and novel solutions to the modeling, simulation, and control of gas turbines (GTs) using artificial neural networks (ANNs).

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important criteria to consider at the beginning of the GT modeling process, such as GT types and configurations, control system types and configurations, and modeling methods and objectives

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