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Servo-systems Modelling, Identification and Control With 182 Figures Richard D. Braatz
kataramanan Springer. CONTENTS ...
1.3 Outline of the Chapters 5 1.4
Background of the Work and
Bibliographical Notes 7 2 General
Description of Hydraulic Servo-
systems 9 2.1 Basic Structure of
Hydraulic Servo-systems 9 2.2
Description of the Components 10 2
...

~~Hydraulic Servo-systems~~

The book features: theoretical (physically based) modelling of hydraulic servo-systems; experimental modelling (system identification); control strategies for hydraulic servo-systems; and, case

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studies and experimental results. Appendices outline the most important fundamentals of (nonlinear) differential geometry and fuzzy control.

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basic concepts of many recent developments of nonlinear identification and nonlinear control and their application to hydraulic servo-systems: developments such as feedback linearisation and fuzzy control.

~~Hydraulic Servo systems: Modelling, Identification and ...~~

This thesis examines the modelling and control of a hydraulic servo system. Both a theoretical and a practical approach are discussed. The used set-up consists of an one DOF hydraulic system with an electronically controlled servo valve. A nonlinear parametric model of the system, several fitted linear black box models as well as a LPV model combining these fits are determined.

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~~Modelling and control of a hydraulic servo system H...~~

It features: theoretical (physically based) modelling of hydraulic servo-systems; experimental modelling (system identification); control strategies for hydraulic servo-systems; and case studies and experimental results. Appendices outline the most important fundamentals of (nonlinear)

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differential geometry and fuzzy control.

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5.7 Grey-box Identification of Non-linear Hydraulic Servo-system Models.

184 5.7.1 Identification of Pressure Dynamics Model 184 5.7.2

Identification of Load Dynamics Model 185 5.7.3 Online ...

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It has been developed using MATLAB/SIMULINK. The main objective of the simulation modeling and system identification for electro-hydraulic servo valve is to obtain good performance of its dynamic and nonlinear behavior. The identified model has been found to be a third-

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order continuous time model. The identification of HSS is performed by using System Identification Toolbox of MATLAB. The obtained results are promising and satisfactory.

~~Modeling and identification of hydraulic servo systems ...~~

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

~~A Review on Mechanical and Hydraulic System Modeling of ...~~

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This paper treats the modeling and parameter identification of a hydraulic circuit for clutch actuation in automatic transmissions (AT) or dedicated hybrid transmissions

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(DHT). 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.

~~Modeling and nonlinear parameter identification for ...~~

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 useful for the synthesis algorithms in the simulation model.

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