

Hydraulic Servo Systems Modelling Identification And Control Advances In Industrial Control

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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 ...

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The book 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) differential geometry and fuzzy control.

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This up-to-date book details the basic concepts of many recent developments of nonlinear identification and nonlinear control, and their application to hydraulic servo-systems. It is very application-oriented and provides the reader with detailed working procedures and hints for implementation routines and software tools.

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Hydraulic Servo-systems details the 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.

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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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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) differential geometry and fuzzy control.

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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-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...~~

Hydraulic Servo-systems details the 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. The principles, benefits and limitations associated with standard control design approaches such as linear state feedback control, feedforward control and compensation for static nonlinearities are also reviewed, because of their continued practical ...

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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 (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.