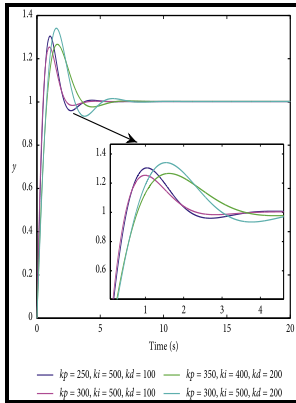# Strategies for feedback linearisation - a dynamic neural network approach

Springer - 14846212

Description: -
-
Mediation
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Neural networks (Computer science)
Linear systems
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-
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Notes: Includes bibliographical references (p. [161]-167) and index
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The Origins of Feedback Control. Unobservable poles are not present in the transfer function realization of a state-space representation, which is why sometimes the latter is preferred in dynamical systems analysis.

[PDF] Recurrent Neural Networks and Feedback Linearization for a Solar Power Plant Control

This requirement is important, as no real physical system truly behaves like the series of differential equations used to represent it mathematically. The controller is the cruise control, the plant is the car, and the system is the car and the cruise control.

[PDF] Recurrent Neural Networks and Feedback Linearization for a Solar Power Plant Control

In the meantime the search and development research go on.

Adaptive Feedback Linearization Control of SISO Nonlinear Processes Using a Self

The controller C then takes the error e difference between the reference and the output to change the inputs u to the system under control P. Following failures of primary aerodynamic actuators, safe flight can be maintained by introducing alternative actuation systems, such as secondary aerodynamic surfaces and propulsion, for critical stability and control augmentation.

A Robust Approach to Dynamic Feedback Linearization for a Steerable Nips Mechanism

Numerous tools exist for the analysis of the poles of a system. Neural network approaches for feedback linearization, Journal of Control Engineering and Applied Informatics 6 1 : 15-26.

Adaptive Feedback Linearization Control of SISO Nonlinear Processes Using a Self

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Introduction to Feedback Linearisation

Furthermore, all system states are not in general measured and so observers must be included and incorporated in pole placement design. The NN model is trained using the Levenberg- Marquardt optimization algorithm.

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