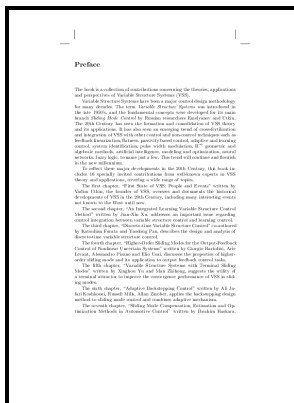


# Adaptive backstepping control of uncertain systems - nonsmooth nonlinearities, interactions, or time-variations

Springer - Feedback Linearization in Systems with Nonsmooth Nonlinearities



Description: -

- Interest inventories

Shakespeare, William, -- 1564-1616 -- Criticism and interpretation

Nonlinear control theory

Feedback control systems

Adaptive control systems Adaptive backstepping control of uncertain systems - nonsmooth nonlinearities, interactions, or time-variations

- Verhandelungen van het Koninklijk Instituut voor Taal-, Land- en Volkenkunde -- 230

Lecture notes in control and information sciences -- 372 Adaptive backstepping control of uncertain systems - nonsmooth nonlinearities, interactions, or time-variations

Notes: Includes bibliographical references (p. [233]-241).

This edition was published in 2008



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Tags: #An #adaptive #back

## Adaptive backstepping control of uncertain systems: Nonsmooth nonlinearities, interactions or time

Space low-thrust trajectory optimization utilizing numerical techniques, a comparative study. IEEE Transactions on Evolutionary Computation, 5 1 :78-82. This paper presents an adaptive control approach to bridge the gap between unknown time-varying actuator nonlinearities and identical control directions in the area of robotic systems.

## Adaptive control of robotic systems with unknown actuator nonlinearities and control directions

Sometimes, the best tracking and regulation performance are achievable by means of large control input magnitude which may exceed the actuators' bounds. The backstepping approach, a recursive Lyapunov-based scheme, was p- posed in the beginning of 1990s. The aforementioned method affords desired level of control system performance without requiring a priori knowledge of quadrotor's parameters.

## Adaptive Critic Control with Robust Stabilization for Uncertain Nonlinear Systems

It is not problematic issue in offline application although this approach increases the complexities of solution. Two examples and their simulations show the effectiveness of the proposed algorithms.

## Backstepping Sliding Mode Controller Coupled to Adaptive Sliding Mode Observer for Interconnected Fractional Nonlinear System

Position and attitude tracking control for a quadrotor UAV.

## Adaptive backstepping control of uncertain systems: Nonsmooth nonlinearities, interactions or time

In: Proceedings of the International conference on swarm intelligence ICSI11.

## **Uncertainty and Disturbance Estimator**

The simulation results prove the combination robustness when the parameters are constants or varied in a defined margin.

## **IJCA**

Design and experimental verification of a constrained finite time optimal control scheme for the attitude control of a quadrotor helicopter subject to wind gusts.

## **Distributed adaptive tracking backstepping control in networked nonidentical Lagrange systems, Nonlinear Dynamics**

Each rotor produces both thrust and antitorque. In order to reach this goal, Summation of Settling Time SST of all outputs is considered as second term in performance index according to.

## Related Books

- [First Canadian woman in the Northwest](#)
- [Igor Stravinsky 1882-1971 - the edition.](#)
- [Achievement and progress - a silver jubilee special, 1947-1972.](#)
- [Satires](#)
- [Kitāb al-Ashrāf](#)