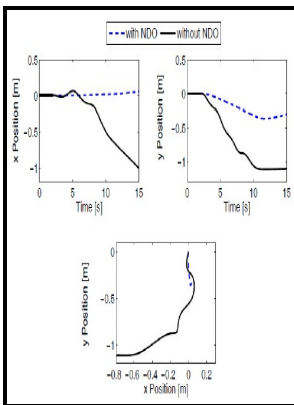


# Adaptive backstepping control of uncertain systems - nonsmooth nonlinearities, interactions, or time-variations

Springer - Adaptive Critic Control with Robust Stabilization for Uncertain Nonlinear Systems



Description: -

-  
Interest inventories  
Shakespeare, William, -- 1564-1616 -- Criticism and interpretation  
Nonlinear control theory  
Feedback control systems  
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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: #Robust #Optimal #Adaptive #Trajectory #Tracking #Control #of #Quadrotor #Helicopter

**Adaptive Backstepping Control of Uncertain Systems with Actuator Failures, Subsystem Interactions, and Nonsmooth Nonlinearities by Changyun Wen, Wei Wang and Jing Zhou (2017, Hardcover) for sale online**

In , by using nested saturation functions, a quaternion-based bounded control method is presented. In: Proceedings of IEEE International Conference on Neural Networks, vol.

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## An adaptive back

In , to handle uncertainties in the model, direct adaptive control based on backstepping method is applied for trajectory tracking problem. The simulation results prove the combination robustness when the parameters are constants or varied in a defined margin. Such nonlinearities are usually poorly known and may vary with time, and they often limit system performance.

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

This flying robot, due to its small size and light weight, is extremely sensitive to external disturbances such as a wind gust. The both architecture performance is studied throughout the inverted pendulum mounted on a cart. Nonsmooth nonlinearities such as dead-zone, backlash, hysteresis and saturation are common in industrial control systems, such as mechanical, hydraulic, biomedical, piezoelectric, and physical systems.

## An adaptive back



## Related Books

- [José Caballero - el tiempo de un poeta : Circulo de Bellas Artes, Sala Goya, Madrid, 5 a 29 de novie](#)
- [Ma'a al-fikr al-falsafi al-Islāmi fi al-Andalus](#)
- [Intuitive healing - a womans guide to finding the healer within](#)
- [Letter addressed, by permission, to the Right Hon. Lord Stanley, M.P. - with appendix](#)
- [Some Thermodynamic Values For Ferrous Oxide.](#)