

## DYNAMIC SURFACE CONTROL OF UNCERTAIN NONLINEAR SYSTEMS%0A

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Dynamic Surface Control of Uncertain Nonlinear Systems ...

Dynamic Surface Control of Uncertain Nonlinear Systems provides a theoretically rigorous and practical introduction to nonlinear control design. The convex optimization approach applied to good effect in linear systems is extended to the nonlinear case using the new dynamic surface control (DSC) algorithm developed by the authors. A variety of problems DSC design, output feedback, input saturation and fault-tolerant control among them are considered. The inclusion of applications

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Dynamic Surface Control of Uncertain Nonlinear Systems ...

Given the range and complexity of nonlinear systems, effective new methods of control design are therefore of significant importance. Dynamic Surface Control of Uncertain Nonlinear Systems provides a theoretically rigorous and practical introduction to nonlinear control design.

Dynamic surface control of nonlinear systems | Request PDF

A quite recent nonlinear control algorithm, namely Dynamic Surface Control, has been attracting the interest of the research community for the control of complex systems.

Composite Neural Dynamic Surface Control of a Class of ...

This paper studies the composite adaptive tracking control for a class of uncertain nonlinear systems in strict-feedback form. Dynamic surface control technique is incorporated into radial-basis

**Neural network-based adaptive dynamic surface control for ...**

Abstract: The dynamic surface control (DSC) technique was developed recently by Swaroop et al. This technique simplified the backstepping design for the control of nonlinear systems in strict-feedback form by overcoming the problem of "explosion of complexity." It was later extended to adaptive

**Anti-disturbance dynamic surface control scheme for a ...**

1. Introduction. Disturbance is inevitable in most of the industrial processes and engineering systems. It affects the performance of the control system and causes serious degradation in the system performance and even it may destabilize system [1,2].

**Dynamic surface control of nonlinear systems - IEEE Xplore ...**

This method is another "synthetic input technique", similar to backstepping and multiple surface control methods, but with an important addition,  $r-1$  low pass filters are included in the design, where  $r$  is the relative degree of the output to be controlled. It is shown that these low pass filters allow a design where the model is not differentiated, thus ending the complexity arising due to

**Predictor based adaptive dynamic surface control for ...**

Yong Hua Liu, Liangpei Huang and Dongming Xiao, Adaptive dynamic surface control for uncertain nonaffine nonlinear systems, International Journal of Robust and Nonlinear Control, 27, 4, (535-546), (2016).

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