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All in all - an intense but also reasonably balanced work in Robust Adaptive Control Theory, combining mathematical rigor with problem solving within the framework of Modern Control Theory. Read more 3 people found this helpful

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In this paper, a direct optimal adaptive nonlinear tracking control method for a class of uncertain Multi-Input Multi-Output (MIMO) nonlinear systems with actuator amplitude constraints in presence of unknown disturbance is developed. In order to handle parametric model uncertainties and external disturbance, an adaptive controller is presented. Particle Swarm Optimization (PSO) algorithm is ...

Optimum Design of Robust Adaptive Controller with Actuator ...

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Robust Adaptive Control - Miroslav Krstic

Robust Adaptive Control of a Large Segmented Telescope

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SUMMARY To circumvent the potentially poor transient response induced by nonlinear uncertain dynamics in the adaptive control system, this article proposes a new model reference adaptive ... The International Journal of Robust and Nonlinear Control promotes development of analysis and design techniques for uncertain linear and nonlinear systems

Robust model reference adaptive control for transient ...

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Robust and Adaptive Control - springer

Adaptive control is different from robust control in that it does not need a priori information about the bounds on these uncertain or time-varying parameters; robust control guarantees that if the changes are within given bounds the control law need not be changed, while adaptive control is concerned with control law changing itself.

Adaptive control - Wikipedia

(2) A robust adaptive control scheme with RISE is developed, in which the adaptive law depends on the desired trajectory and the RISE is used to cope with the bounded disturbance. (3) Extensive comparative experimental results validate the effectiveness of the developed control method in comparison to the other three control schemes.

Robust adaptive tracking control for servo mechanisms with ...

Robust and Adaptive Control Workshop Adaptive Control: Introduction, Overview, and Applications Nonlinear Dynamic Systems and Equilibrium Points • A nonlinear dynamic system can usually be represented by a set of n differential equations in the form: - x is the state of the system - t is time •If f does not depend explicitly on time ...

Adaptive Control: Introduction, Overview, and Applications

Then, as results of the simulations, Figure 3 illustrates the estimation of $x^1(t)$ and $x^2(t)$. Finally, by means of , Figure 4 shows the final estimates $x^1(t)$ and $x^2(t)$, where the red curves correspond to the trajectories of the designed algorithm, and the green curves are obtained by stopping the output injection (i.e., stopping the integration of) after $t = 25$ min in order to ...

Robust Adaptive Estimation in the Competitive Chemostat ...

Robust and adaptive backstepping control for nonlinear systems using rbf neural networks, (2004) by Y Li, S Qiang, X Zhuang, O Kaynak ... Neural adaptive control for nonlinear multiple time scale dynamic systems CONAcyT-50480Y 2007-2010 1 (Show Context) Robust Neural Network Control of Electrically Driven Robot Manipulator using Backstepping ...

Robust and adaptive backstepping control for nonlinear ...

In this paper, a robust adaptive output feedback control strategy based on a sliding mode super-twisting algorithm is designed for the trajectory tracking control of a wheeled mobile robot. First, a robust adaptive law is designed to eliminate the influence of parameter uncertainties. Second, a double-power sliding mode surface is designed to improve the response speed of the robot system ...

Adaptive Super-Twisting Sliding Mode Control for Mobile ...

Robust, Practical Adaptive Control for Launch Vehicles Jeb S. Orr Science Applications International Corporation, Huntsville, AL, 35806 Tannen S. VanZwieteny NASA Marshall Space Flight Center, AL, 35812 A modern mechanization of a classical adaptive control concept is presented with an application to launch vehicle attitude control systems.

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