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The concept is called Adaptive Robust Control. It may be compared with Gain Scheduling, Two-Time Scale Adaptive Control, Intermittent Adaptive Control, Repeated Auto-Tuning, or Switched Adaptive Control, with the important difference that the control is switched between robust controllers that are based on plant uncertainty sets that take into account not only the currently estimated plant model set but also the possible jumps and drifts that may occur until the earliest next time the ...

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(2) Adaptive Robust Finite-time Neural Control (ARFINC) (Chen et al., 2017): This control method is carried out in Chen et al. (2017). The control law $u = W^T \phi(X) + k_1 s + k_2 |s| \gamma \operatorname{sgn}(s) + (\delta_1 + \delta_2) \operatorname{sgn}(s)$, where tracking error is $e = x_1 - x_d$ and $s = e' + \lambda_1 e + \lambda_2 \beta(e)$.

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Adaptive control is the control method used by a controller which must adapt to a controlled system with parameters which vary, or are initially uncertain. For example, as an aircraft flies, its mass will slowly decrease as a result of fuel consumption; a control law is needed that adapts itself to such changing conditions. 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

Adaptive control - Wikipedia

Another good method to handle time-varying disturbances and system uncertainties is called adaptive control. Do et al., 2003, Do and Pan, 2006 developed a series of robust adaptive course tracking controllers for underactuated ships based on Lyapunov's direct method and backstepping technique. Under the condition of sway motion passive ...

Robust adaptive heading control for a surface vessel with ...

The control scheme consists of a robust control and an adaptive control that updates crucial parameters for the purpose of compensating partial loss of actuation effectiveness and uncontrollable actuator faults. Mao et al. addressed an adaptive failure compensation problem for high-speed trains with actuator failures.

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ROBUST ADAPTIVE CONTROL. Petros A. Ioannou Electrical Engineering Systems University of Southern California EEB 200B, MC 2562 Lo Angeles, CA 90089 Email: ioannou@usc.edu. Jing Sun Control Systems Ford Scientific Research Laboratory Email: jsun@ford.com. This book was previously published by Pearson Education, ...

ROBUST ADAPTIVE CONTROL

The book is organized into two parts: Part I: Robust and Optimal Control (Chapters 1-6) reviews basically the topics on Linear Quadratic Regulator (LQR), H-infinity Optimal Control and Linear Quadratic Gaussian with Loop-transfer Recovery (LQG/LTR) Control. Part II: Model Reference

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Adaptive Control (Chapters 7-14) is the heart of the book focusing on Lyapunov Stability Theory, direct and indirect adaptive control architectures such as Model Reference Adaptive Control (MRAC) with more in ...

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