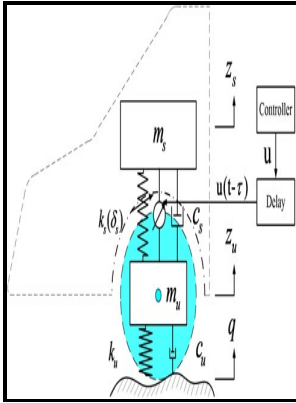


Nonlinear control design methodology for computer-controlled vehicle suspension systems

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Description: -

-nonlinear control design methodology for computer-controlled vehicle suspension systems

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An optimal linear control design for nonlinear systems

Keywords: time-delay compensation, tracking error, adaptive controller, nonlinear suspension, active control. The results may supply theoretical bases for analysis and optimal design of vehicle suspension systems.

Adaptive control of nonlinear uncertain active suspension systems with prescribed performance

In: Fuzzy logic, neural networks, and evolutionary computation, Springer, Berlin. Sliding mode control for active suspension system with data acquisition delay. An embedded implementation of the generalized predictive control algorithm applied to automotive active suspension systems.

Ride Dynamics of Nonlinear Vehicle Models Using Component Mode Synthesis

Stability analysis and fuzzy smith compensation control for semi-active suspension systems with time delay.

[Abstract] Nonlinear H

Mathematical Problems in Engineering, Vol. By removing the assumptions from the state of the art methods, state-feedback and output-feedback controller design methods are proposed to design less conservative state-feedback and output-feedback controller existence conditions.

Controller design and multi

The results of Bernstein 1993 are based on the fact that steady-state solution of the Hamilton-Jacobi-Bellman equation is a Lyapunov function for the nonlinear system thus guaranteeing both stability and optimality. To achieve energy regeneration capability, a low-power electronic circuit capable of providing a variable load resistance is developed and fabricated. An augmented neural network is developed to online compensate for the unknown nonlinearities, and a novel adaptive law is developed to estimate both NN weights and uncertain model parameters e .

Adaptive control of nonlinear uncertain active suspension systems with prescribed performance

International Journal of Wavelets, Multiresolution and Information Processing, Vol.

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Subsequently, this allows the application of appropriate numerical methodologies for predicting response spectra of the nonlinear models to periodic road excitations.

Mustefa Jibril, Quarter car active suspension system design using optimal and robust control method

This control method is quite simple and effective without affecting the system properties. IEEE 49th Vehicular Technology Conference Cat No 99CH36363 , IEEE 3:2273—2277. The stability for the closed-loop system is proved and particular performance requirements are analyzed.

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