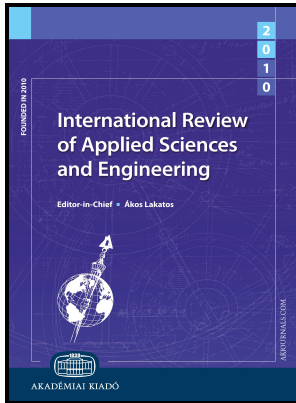# Nonlinear control design methodology for computer-controlled vehicle suspension systems

- - Controlling Chaos in Automobile Suspension System with Nonlinear Feedback Controller

Description: -
-nonlinear control design methodology for computer-controlled vehicle suspension systems
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Notes: Thesis (Ph.D.) - Loughborough University of Technology, 1992.
This edition was published in 1992

Filesize: 8.46 MB

Tags: #Adaptive #control #of #a #nonlinear #suspension #with #time

Controller design and multi

Journal of Intelligent and Fuzzy Systems, Vol. In other words, the suspension was set to a controlled state 0.

[Abstract] Nonlinear H

The numerical simulations the Duffing oscillator and the nonlinear automotive active suspension system are provided to show the effectiveness of this method. Considering the nonlinear governing equations and vehicle tire model, a nonlinear H-infinity control strategy is designed based on Hamiltonian-Jacobi-Isaacs HJI method using Linear Matrix Inequality LMI approach.

A Methodology for Optimal Design of a Vehicle Suspension System With Energy Regeneration Capability

In: Artificial neural nets and genetic algorithms, Springer, Vienna. First, a real-time control model is created.

A Methodology for Optimal Design of a Vehicle Suspension System With Energy Regeneration Capability

This is done by designing and implementing an adaptive controller with time-delay compensation.

Controlling Chaos in Automobile Suspension System with Nonlinear Feedback Controller

Both the period to settle down and the peak of vibration acceleration are smaller.

Road

Journal of Dynamic Systems, Measurement, and Control, Vol. The numerical simulations for the Duffing oscillator and the nonlinear automotive active suspension system are provided to show the effectiveness of this method. Struct Multidiscip Optim 57 3 :1129—1147.

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