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BASIC
VIEW | EXPANDED VIEW

Research Papers

Magnetically Suspended VSCMGs for Simultaneous Attitude Control and Power Transfer IPAC Service

Junyoung Park and Alan Palazzolo

J. Dyn. Sys., Meas., Control. 2010;132(5):051001-051001-15. doi:10.1115/1.4002105.

Output Saturation in Electric Motor Systems: Identification and Controller Design

Kyoungchul Kong, Helge C. Kniep and Masayoshi Tomizuka

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Dynamic Modelling and Control of Semifree-Piston Motion in a Rotary Diesel Generator Concept

J. F. Dunne

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Multibody Dynamic Model of Web Guiding System With Moving Web

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Robust Fuzzy Tracking Control Design for a Class of Nonlinear Stochastic Markovian Jump Systems

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Dynamic Thermomechanical Modeling of a Wet Shape Memory Alloy Actuator

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New Stabilization Schemes for Linear Hybrid Systems With Time-Varying Delays

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Robust Stochastic Design of Linear Controlled Systems for Performance Optimization

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PCCI Control Authority of a Modern Diesel Engine Outfitted With Flexible Intake Valve Actuation

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Polynomial Chaos Based Design of Robust Input Shapers

Tarunraj Singh, Puneet Singla and Umamaheswara Konda

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Robust Impedance Control of Manipulators Carrying a Heavy Payload

Farhad Aghili

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Technical Briefs

Parameter Uncertainty Modeling Using the Multidimensional Principal Curves

M. Sepasi, F. Sassani and R. Nagamune

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Combined Controller for Test System of High Capacity Hydraulic Pump

Wenjun Meng and Jeffrey C. Suhling

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Mechatronic Model and Experimental Validation of a Pneumatic Servo-Solenoid Valve

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Quantitative Fault Tolerant Control Design for a Leaking Hydraulic Actuator

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