Sliding Mode Control In Electromechanical Systems

Sliding Mode Control In Electromechanical
In that time, Sliding Mode Control (SMC) has continued to gain increasing importance as a universal design tool for the robust control of linear and nonlinear electro-mechanical systems. Its strengths result from its simple, flexible, and highly cost-effective approach to design and implementation.

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Sliding Mode Control of Electromechanical Systems Heide Brandtst¨adter Vollst¨andiger Abdruck der von der Fakult¨at fu¨r Elektrotechnik und Informationstechnik der Technischen Universit¨at Mu¨nchen zur Erlangung des akademischen Grades eines Doktor-Ingenieurs (Dr.-Ing.) genehmigten Dissertation. Vorsitzender: Univ.-Prof. Dr.-Ing. Wolfgang ...

Sliding Mode Control of Electromechanical Systems
Vadim Utkin is one of the originators of the concepts of Variable Structure Systems and Sliding Mode Control. Author of five books and more than 300 technical papers, he was awarded the Lenin Prize (the highest scientific award in the former Soviet Union) and was Ford Chair of Electromechanical Systems from 1994 to 2002 at the Ohio State University.

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Sliding mode control in electromechanical systems. [Vadim Ivanovich Utkin; Jürgen Guldner; Jingxin Shi] -- "Sliding Mode Control (SMC) is gaining increasing importance as a universal design tool for the robust control of linear and nonlinear systems.

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article investigates a control scheme for electromechanical systems using voltage as the discontinuous control input. Additional to the mechanical variables, the variable of the electrical system, the current, influences the control law. Sliding mode control is chosen because it offers robustness as well as fast dynamics.

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In control systems, sliding mode control (SMC) is a nonlinear control method that alters the dynamics of a nonlinear system by application of a discontinuous control signal (or more rigorously, a set-valued control signal) that forces the system to "slide" along a cross-section of the system's normal behavior. The state-feedback control law is not a continuous function of time.

Sliding mode control - Wikipedia
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Sliding Mode Control in Electro-Mechanical Systems ...
The first sliding mode control application may be found in the papers back in the 1930s in Russia. With its versatile yet simple design procedure the methodology is proven to be one of the most powerful solutions for many practical control designs. For the sake of demonstration this paper is oriented towards application aspects of sliding mode control methodology.

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