



Advances and Applications in Sliding Mode Control systems

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Condition: New. Publisher/Verglag: Springer, Berlin | This book describes the advances and applications in Sliding mode control (SMC) which is widely used as a powerful method to tackle uncertain nonlinear systems. The book is organized into 21 chapters which have been organised by the editors to reflect the various themes of sliding mode control. The book provides the reader with a broad range of material from first principles up to the current state of the art in the area of SMC and observation presented in a clear, matter-of-fact style. As such it is appropriate for graduate students with a basic knowledge of classical control theory and some knowledge of state-space methods and nonlinear systems. The resulting design procedures are emphasized using Matlab/Simulink software. | Adaptive Sliding mode control of the Furuta pendulum.- Optimal Sliding and Decoupled Sliding Mode Tracking Control by Multi-objective Particle Swarm Optimization and Genetic Algorithms.- Robust Control of Robot Arms via Quasi Sliding Modes and Neural Networks.- A robust adaptive self-tuning sliding mode control for a hybrid actuator in camless internal combustion engines.- Sliding mode control of class of linear uncertain saturated systems.- Sliding mode control scheme of variable speed wind energy conversion system based on the...



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