



Recent Trends in Sliding Mode Control (Control, Robotics and Sensors)

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In control theory, sliding mode control (SMC) is a nonlinear control method that alters the dynamics of a nonlinear system by application of a discontinuous control signal that forces the system to “slide” along a cross-section of the system’s normal behavior. This book describes recent advances in the theory, properties, methods and applications of SMC, including a discussion about the advantages and disadvantages of different SMC algorithms; a new Lyapunov based approach for design of such controllers; gain adaptation for arbitrary order sliding mode control; new methods for design of arbitrary order sliding mode surfaces; and new applications in air breathing hypersonic vehicles, electro-pneumatic actuators, wind-energy conversion systems, and control of electrical machines with saturation.

With contributions from an international team of experts in the area this is essential reading for researchers and students in control theory and its applications.

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