



Sliding Mode Control

By Lambert M. Surhone

Betascript Publishers Dez 2009, 2009. Taschenbuch. Book Condition: Neu. 220x150x4 mm. Neuware - High Quality Content by WIKIPEDIA articles! In control theory, sliding mode control, or SMC, is a form of variable structure control (VSC). It is a nonlinear control method that alters the dynamics of a nonlinear system by application of a high-frequency switching control. The state-feedback control law is not a continuous function of time. Instead, it switches from one continuous structure to another based on the current position in the state space. Hence, sliding mode control is a variable structure control method. The multiple control structures are designed so that trajectories always move toward a switching condition, and so the ultimate trajectory will not exist entirely within one control structure. Instead, the ultimate trajectory will slide along the boundaries of the control structures. The motion of the system as it slides along these boundaries is called a sliding mode and the geometrical locus consisting of the boundaries is called the sliding (hyper)surface. 72 pp. Englisch.



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