

## SLIDING MODE CONTROL

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Sliding mode control. In control systems, sliding mode control, or 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.

## 5.7 Sliding Mode Control

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The main objective of this monograph is to present a broad range of well worked out, recent application studies as well as theoretical contributions in the field of sliding mode control system analysis and design.

## Sliding Mode Control Using MATLAB | ScienceDirect

Sliding Mode Control Using MATLAB provides many sliding mode controller design examples, along with simulation examples and MATLAB programs. Following the review of sliding mode control, the book includes sliding mode control for continuous systems, robust adaptive sliding mode control, sliding mode control for underactuated systems, backstepping, and dynamic surface sliding mode control, sliding mode control based on filter and observer, sliding mode control for discrete systems, fuzzy

## Sliding mode control

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## Sliding mode control : a tutorial - MAFIADOC.COM

In the sliding mode, when  $s = 0$ , the dynamics of the system are determined by the dynamics  $\dot{y} = \bar{y}$ , a free system where the initial condition is determined by  $(y(t_s), y(t^+))$ , where  $t_s$  is the time at which the sliding mode condition,  $s = 0$  is reached. Defining the sliding mode dynamics by selecting an appropriate sliding surface is

termed as solving the existence problem. A control to  
**Chapter 4. Sliding mode control - Bemutatók s**  
According to the theory sliding mode control should be robust, but experiments show that it has serious limitations. The main problem by applying the sliding mode is the high frequency oscillation around the sliding surface, the so-called chattering, which strongly reduces the control performance. Only few could implement in practice the robust behavior predicted by the theory. Many have