

- Design Control Law for Regulator

System :  $\dot{x} = f(x, \dot{x}, u, t, \Delta)$        $\Delta < \beta$

State Space Model:  $x = x_1$

$$\dot{x} = \dot{x}_1 = x_2$$

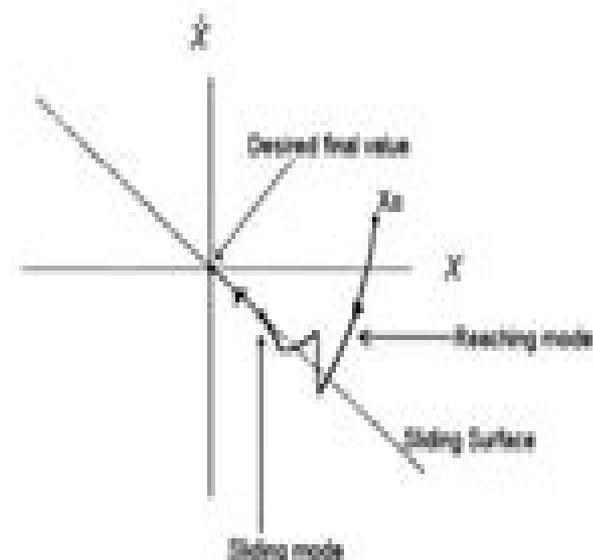
$$\dot{x} = \dot{x}_1 = \dot{x}_2 = f(x, \dot{x}, u, t, \Delta)$$

Sliding Surface:  $s = ax_1 + x_2$        $a > 0$

First Derivative of  $s \rightarrow \dot{s} = a\dot{x}_1 + \dot{x}_2 = ax_2 + f(x, \dot{x}, u, t, \Delta)$

$$\dot{s} = -k|s|^\gamma \text{sgn}(s) \quad k > 0, 0 > \gamma > 1$$

$$ax_2 + f(x, \dot{x}, u, t, \Delta) = -k|s|^\gamma \text{sgn}(s)$$



Control Law  $u = -ax_2 - f(x, \dot{x}, t, \Delta) - k|s|^\gamma \text{sgn}(s)$

# Discretetime Sliding Mode Control

**JR Anderson**



## **Discretetime Sliding Mode Control:**

## Unveiling the Magic of Words: A Review of "**Discretetime Sliding Mode Control**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Discretetime Sliding Mode Control**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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