

- Design Control Law for Regulator

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

State Space Model: $x = x_1$

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

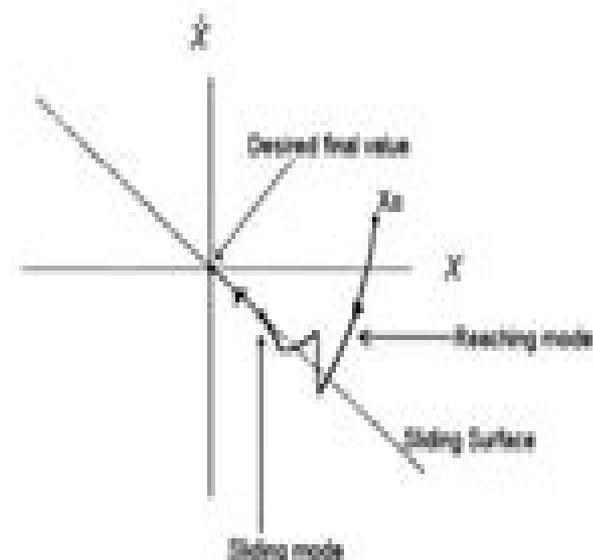
$$\dot{x} = \dot{x}_1 = \dot{x}_2 = f(x, \dot{x}, u, t, \Delta)$$

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

Rosina Ehmman



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