

$$\dot{\hat{x}}_1 = -\hat{x}_1 + u$$

$$\dot{\hat{x}}_2 = -2\hat{x}_2$$

$$\dot{\hat{x}}_3 = -3\hat{x}_3 + u$$

$$\dot{\hat{x}}_4 = -4\hat{x}_4$$

$$y = \hat{x}_1 + \hat{x}_2$$

