Saturday, August 22, 2020

AAE 364 LAB FRAZHO

$$y$$
 M
 C
 V

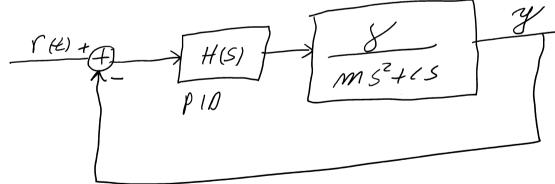
$$m, c$$

$$m\ddot{y} + c\ddot{y} = \delta V$$

$$\frac{Y}{V} = \frac{\delta}{ms^2 + cs}$$

$$\frac{V}{V} = \frac{V}{ms^2 + cs}$$

$$H(s) = kp + kds + kc$$



$$V_{0} = V \qquad \text{if } |V| \leq 6$$

$$= 6 \qquad \text{if } V \geq 6$$

$$= -6 \qquad \text{if } V \leq -6$$

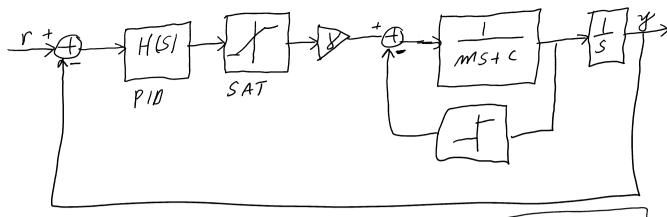
$$\text{Intogral windap } K_{c} \neq 0$$

$$\text{cs.poss.ble}$$

coulomb friction

$$\frac{y}{f} = f_c \quad \text{if } y > 0$$

$$= -f_c \quad \text{if } y < 0$$



$$3M = 1.07$$
 $C = 13.12$ K_{c} , K_{d} $K_{$

Ki + O

Integral windup Ki + O

Is possible with SATURAtion