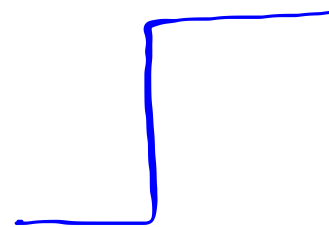


$$G(z) = \frac{K}{(z - 0.6)(z - a)(z - 0.8)}$$

$$a \begin{cases} 0.2, & \text{no fault} \\ 0.9, & \text{fault} \end{cases}$$



$$G(z) = \frac{y(z)}{u(z)} \quad \varphi(t) = \begin{bmatrix} y(t-1) & y(t-2) \\ & y(t-3) \end{bmatrix}^T$$

$$y(t) = \left( \frac{7}{5} + a \right) y(t-1) - \left( \frac{7}{5} a + \frac{12}{25} \right) y(t-2) + \frac{12}{25} a y(t-3) + k u(t-3)$$

$$\theta = [a_3 \quad a_2 \quad a_1]^T$$

