

$$U(s) \longrightarrow \boxed{H(s)} \longrightarrow Y(s)$$

$$U(s) \xrightarrow{\quad 0 \quad} U_d(s) \longrightarrow \boxed{H(s)} \longrightarrow Y_d(s)$$

$$u(t) \xrightarrow{\quad 0 \quad} U_{dd}(z) \longrightarrow \boxed{(1 - z^{-1})H_{dd}(z)} \longrightarrow Y_{dd}(z)$$