

$$U_1(t) \longrightarrow y_1(t)$$

$$U_2(t) = \int_0^t u_1(\tau) d\tau \quad \longrightarrow \quad y_2(t) = \int_0^t y_1(\tau) d\tau$$

$$u_1(t) = U_s(t)$$

$$y_1(t) = V_m(t)$$

$$\frac{d}{dt} y_s(t) = U_s(t)$$

$$u_2(t) = y_s(t)$$

$$y_2(t) = y_m(t)$$

$$\frac{d}{dt} y_m(t) = V_m(t)$$

$$Y_1(s) = H(s) U_1(s)$$

$$Y_2(s) = H(s) U_2(s)$$