

$$y_1(s) = \frac{G_1(s)G_2(s)}{1 + G_1(s)G_2(s)H_1(s)H_2(s)}y^*(s) + \frac{G_2(s)}{1 + G_1(s)G_2(s)H_1(s)H_2(s)}P(s) - \frac{G_1(s)G_2(s)H_2(s)}{1 + G_1(s)G_2(s)H_1(s)H_2(s)}N(s)$$