

$$y(n) = b_0 x(n) + b_1 x(n-1) + b_2 x(n-2) \\ + a_1 y(n-1) + a_2 y(n-2)$$

$$H(z) = \frac{b_0 z^0 + b_1 z^{-1} + b_2 z^{-2}}{1 - (a_1 z^{-1} + a_2 z^{-2})}$$