

$$f_0$$

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$$y[n] = b_0x[n] + b_1x[n-1] + \ldots + b_Nx[n-N]$$

$$y[n] = \frac{1}{a_0}(b_0x[n]+\ldots+b_Px[n-P]) - a_1y[n-1] - \ldots - a_Qy[n-Q]$$

$$\mathfrak{d}$$

$$\begin{array}{c} \bullet \\ \bullet \end{array}$$