

Input

$$[\boxed{x_0, \dots, x_n}, \boxed{x_{n+1}, \dots, x_{2n}}, \dots]$$

umstrukturierter Input

$$\begin{array}{c} \text{Spectra} \\ \vdots \\ S_0 \end{array} \left\{ \begin{array}{c} \overbrace{C_0} \\ \boxed{x_{0,0}} \\ \dots \\ \boxed{x_{m,0}} \\ \dots \\ \boxed{x_{2m,0}} \end{array} \quad \overbrace{\dots}^{\text{Channel}} \quad \overbrace{C_p} \\ \boxed{x_{0,p}} \\ \dots \\ \boxed{x_{m,p}} \\ \dots \\ \dots \end{array} \right]$$

Filter Koeffizienten

$$\begin{array}{c} \text{Taps} \\ T_0 \{ \overbrace{C_0} \\ \boxed{c_{0,0}} \\ \dots \\ \boxed{c_{m,0}} \end{array} \quad \overbrace{\dots}^{\text{Channel}} \quad \overbrace{C_p} \\ \boxed{c_{0,p}} \\ \dots \\ \boxed{c_{m,p}} \end{array}$$

$$y_{0,0} = x_{0,0} \cdot c_{0,0} + \dots + x_{m,0} \cdot c_{m,0}$$

$$y_{0,p} = x_{0,p} \cdot c_{0,p} + \dots + x_{m,p} \cdot c_{m,p}$$

$$y_{1,0} = x_{m,0} \cdot c_{0,0} + \dots + x_{2m,0} \cdot c_{m,0}$$

Output

$$\begin{bmatrix} y_{0,0} & \dots & \dots & y_{0,p} \\ \dots & \dots & \dots & \dots \\ y_{1,0} & \dots & \dots & \dots \end{bmatrix}$$