

$$\begin{array}{c} a_j \\ \hline d_j \end{array} = \begin{array}{c} (\cdot \star \tilde{h}) \downarrow 2 \\ \hline (\cdot \star \tilde{g}) \downarrow 2 \end{array} \times \begin{array}{c} a_{j-1} \end{array}$$