

$$\left( \begin{array}{cccccc} 0 & 1 & 1 & 0 & 0 & 1 \\ 1 & 0 & 0 & 1 & 1 & 0 \\ \hline 0 & 1 & 1 & 0 & \frac{1}{\sqrt{2}} & 1 \\ \hline 1 & 0 & 1 & 0 & 1 & 0 \\ 0 & 1 & 0 & 1 & 0 & 1 \end{array} \right)$$