

$$\left(\begin{array}{c}
 \underbrace{\begin{array}{|c|} \hline 1 & & & 0 \\ & \ddots & & \\ & & & \\ \hline 0 & & & 1 \\ \hline \end{array}}_p \\
 \\
 \underbrace{\begin{array}{|c|} \hline -1 & & & 0 \\ & \ddots & & \\ & & & \\ \hline 0 & & & -1 \\ \hline \end{array}}_q \\
 \\
 \begin{array}{|c|} \hline \cos \omega_1 & -\sin \omega_1 \\ \sin \omega_1 & \cos \omega_1 \\ \hline \end{array} \\
 \\
 \dots \\
 \underbrace{\begin{array}{|c|} \hline \cos \omega_r & -\sin \omega_r \\ \sin \omega_r & \cos \omega_r \\ \hline \end{array}}_r
 \end{array} \right)$$