

$$\begin{bmatrix}
 \begin{array}{cc} \cos(\alpha_1) & -\sin(\alpha_1) \\ \sin(\alpha_1) & \cos(\alpha_1) \end{array} & & & & 0 \\
 & \ddots & & & & \\
 & & \begin{array}{cc} \cos(\alpha_k) & -\sin(\alpha_k) \\ \sin(\alpha_k) & \cos(\alpha_k) \end{array} & & & \\
 & & & 1 & & \\
 & & & & \ddots & \\
 & & & & & 1
 \end{bmatrix}$$