$$
T = \begin{array}{c} \\ [0,0] \\ [0,1] \\ [0,2] \\ [1,0] \\ [1,1] \\ [1,2] \\ [2,0] \\ [2,1] \\ [2,2] \end{array}
\begin{array}{c}
\begin{array}{ccccccccc} [0,0] & [0,1] & [0,2] & [1,0] & [1,1] & [1,2] & [2,0] & [2,1] & [2,2] \end{array} \\
\begin{bmatrix}
0.875 & 0.075 & 0 & 0.05 & 0 & 0 & 0 & 0 & 0 \\
0 & 0.875 & 0.075 & 0 & 0.05 & 0 & 0 & 0 & 0 \\
0 & 0 & 0.9 & 0 & 0 & 0.1 & 0 & 0 & 0 \\
0 & 0 & 0 & 0.875 & 0.075 & 0 & 0.05 & 0 & 0 \\
0 & 0 & 0 & 0 & 0.875 & 0.075 & 0 & 0.05 & 0 \\
0 & 0 & 0 & 0 & 0 & 0.9 & 0 & 0 & 0.1 \\
0 & 0 & 0 & 0 & 0 & 0 & 0.85 & 0.15 & 0 \\
0 & 0 & 0 & 0 & 0 & 0 & 0 & 0.85 & 0.15 \\
0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1.0
\end{bmatrix}
\end{array}
$$