

$$\mathbf{M} = \begin{pmatrix} 0.0889 & 0.0259 & -0.0296 & 0.0259 & -0.0111 \\ 0.0259 & 0.4840 & 0.0691 & -0.0605 & 0.0259 \\ -0.0296 & 0.0691 & 0.6321 & 0.0691 & -0.0296 \\ 0.0259 & -0.0605 & 0.0691 & 0.4840 & 0.0259 \\ -0.0111 & 0.0259 & -0.0296 & 0.0259 & 0.0889 \end{pmatrix}$$

$$\tilde{\mathbf{M}} = \begin{pmatrix} 0.1000 & 0 & 0 & 0 & 0 \\ 0 & 0.5444 & 0 & 0 & 0 \\ 0 & 0 & 0.7111 & 0 & 0 \\ 0 & 0 & 0 & 0.5444 & 0 \\ 0 & 0 & 0 & 0 & 0.1000 \end{pmatrix}.$$