For 2D FEM,

$$D_{m}^{-T} = \frac{1}{2A_{e}^{\circ}} \begin{bmatrix} \chi_{02} - \chi_{12} & \chi_{12} - \chi_{22} \\ \chi_{11} - \chi_{01} & \chi_{21} - \chi_{11} \end{bmatrix}$$

$$\begin{bmatrix} D_{m} \end{bmatrix}$$