$$\frac{1}{\sqrt{8}} \begin{bmatrix} 2 & 0 & 2 & 0 \\ -\sqrt{3} & 1 & \sqrt{3} & 1 \\ 0 & -2 & 0 & 2 \\ 1 & \sqrt{3} & -1 & \sqrt{3} \end{bmatrix} \begin{bmatrix} \phi^{0}_{i,2j} \\ \phi^{1}_{i,2j} \\ \phi^{0}_{i,2j+1} \\ \phi^{1}_{i,2j+1} \end{bmatrix} = \begin{bmatrix} \phi^{0}_{i-1,j} \\ \phi^{1}_{i-1,j} \\ \psi^{0}_{i-1,j} \\ \psi^{1}_{i-1,j} \end{bmatrix}$$
(1)

$$\begin{bmatrix}
B_1 \\
B_2 \\
\vdots
\end{bmatrix} = \begin{bmatrix}
E_1 \\
E_2 \\
\vdots
\end{bmatrix} + \begin{bmatrix}
k_{11} & k_{12} & \cdots \\
k_{21} & k_{22} & \cdots \\
\vdots & \vdots & \ddots
\end{bmatrix} \begin{bmatrix}
B_1 \\
B_2 \\
\vdots
\end{bmatrix}$$
(2)