Example of ARMAV model analysis and decomposition:

$$\begin{bmatrix}
X_{1t} \\
X_{2t}
\end{bmatrix} = \begin{bmatrix}
-0.0148 & 0.035 \\
0.06584 & 0.098
\end{bmatrix} \begin{bmatrix}
X_{1t-1} \\
X_{2t-1}
\end{bmatrix} + \begin{bmatrix}
-a_{1t} \\
a_{2t}
\end{bmatrix}$$

$$X_{2t} = \begin{bmatrix}
0.3653 & 0 \\
0.6016
\end{bmatrix} \qquad
\begin{cases}
5a_{12} = 0.6016 \\
7a_{11} = 0.3652
\end{cases}$$

Just modeling
$$X_{2+}$$
 alone gives
$$X_{2+} = 0.0273 \ X_{2+}, + q_{2+} \qquad \overline{Q}_{2} = 0.7604$$

$$(1 - \frac{0.0023 B^{2}}{1 - 0.0832 B - 0.0015B^{2}}) X_{2t} = \frac{0.06584 B}{1 - 0.0832 B - 0.015B^{2}} q_{1t}$$

$$+ \frac{1}{1 - 0.0988} q_{2t}$$

$$\chi_{2t} = \frac{0.065848}{1 - 0.08328 - 0.00388^2} q_{1t} + \frac{1 - 0.01488}{1 - 0.08328 - 0.00388^2} q_{2t}$$

Breaking the expression above into PFE terms I protect from traction expansion) will lead to a Green's decomposition in terms of 94 and 94.