$$F = \begin{pmatrix} 0.5 & 1.0 \\ 0.1 & 0.2 \end{pmatrix}$$

$$C = \begin{pmatrix} 1 & 0 \\ 0 & 1 \\ 1 & 0 \end{pmatrix} \qquad \longrightarrow \qquad S = \begin{pmatrix} 0.5 & 1.0 \\ 0.1 & 0.2 \\ 0.9 & 0.7 \end{pmatrix}$$

$$G = \begin{pmatrix} -1.22 & -0.24 \\ 1.57 & 0.31 \end{pmatrix}$$