

$$J = \begin{pmatrix} K_{11} & K_{12} & G_1 \\ K_{21} & K_{22} & G_2 \\ G_1^T & G_2^T & 0 \end{pmatrix}$$

$$J_{PC} = \begin{pmatrix} K_{11} & K_{12} & G_1 \\ K_{21} & K_{22} & G_2 \\ 0 & 0 & \hat{S} \end{pmatrix}$$

