$$\begin{pmatrix} I & 0 \\ A_{IB}^T A_I^{-1} & I \end{pmatrix} \begin{pmatrix} A_I & A_{IB} \\ 0 & S_B \end{pmatrix} \begin{pmatrix} u_I \\ u_B \end{pmatrix} = \begin{pmatrix} f_I \\ f_B \end{pmatrix}, \tag{5.6}$$