The General Setup Through LFT’s

Consider a block $3 \times 3$ system matrix $G$, mapping

$$
\begin{pmatrix}
 v \\
 w \\
 u
\end{pmatrix}
\rightarrow
\begin{pmatrix}
 r \\
 z \\
 y
\end{pmatrix}
$$

where $v = \Delta r$, for some $\Delta$, and $u = Ky$. 