

$$\mathbf{A} = \begin{bmatrix} \omega_1^N & \omega_2^N & 0 & \omega_4^N & \omega_5^N \\ \omega_1^N & \omega_2^N & \omega_3^N & 0 & \omega_5^N \\ 0 & \omega_2^N & \omega_3^N & \omega_4^N & \omega_5^N \\ \omega_1^N & 0 & \omega_3^N & \omega_4^N & \omega_5^N \\ \omega_1^L & \omega_2^L & \omega_3^L & \omega_4^L & \omega_5^L \end{bmatrix} \quad b = \begin{bmatrix} 0 \\ 0 \\ 0 \\ 0 \\ \nabla \cdot u_5 \end{bmatrix}$$