

$$\mathbf{G}_x = \text{diag} \left\{ \frac{1}{V_i} \right\} \mathbf{D}_x^T; \quad \mathbf{G}_y = \text{diag} \left\{ \frac{1}{V_i} \right\} \mathbf{D}_y^T; \quad \mathbf{G} = \text{diag} \left\{ \frac{1}{V_i} \right\}_z \mathbf{D}_z^T$$