$$oldsymbol{G}_x = ext{diag}\left\{rac{1}{V_i}
ight\}oldsymbol{D}_x^T; \qquad oldsymbol{G}_y = ext{diag}\left\{rac{1}{V_i}
ight\}oldsymbol{D}_y^T; \qquad oldsymbol{G} = ext{diag}\left\{rac{1}{V_i}
ight\}_z oldsymbol{D}_z^T$$