

$$\begin{array}{c}
 \Delta \mathbf{S}_n \xrightarrow{\hspace{1cm}} \boxed{\mathbf{P}_n} \xrightarrow{\mathbf{P}_n \Delta \mathbf{S}_n} \boxed{\mathbf{F}_n} \xrightarrow{\mathbf{F}_n \mathbf{P}_n \Delta \mathbf{S}_n} \boxed{\mathbf{P}_n^{-1}} \xrightarrow{\mathbf{P}_n^{-1} \mathbf{F}_n \mathbf{P}_n \Delta \mathbf{S}_n} \\
 \mathbf{H}_n = \mathbf{P}_n^{-1} \mathbf{D}_n \mathbf{P}_n \qquad \mathbf{F}_n = \frac{\mathbf{D}_n^*}{|\mathbf{D}_n|^2 + \frac{\langle |\mathbf{P}_n \mathbf{N}_n|^2 \rangle}{|\mathbf{P}_n \Delta \mathbf{W}_{S,n}|^2}}
 \end{array}$$