$$\hat{\mathbf{x}}_{1}^{-} = \hat{\xi}\hat{\mathbf{x}}_{0} + \int_{\Omega} \mathbf{\Psi}(\mathbf{r}') f\left(\boldsymbol{\phi}^{\top}(\mathbf{r}')\hat{\mathbf{x}}_{0}\right) d\mathbf{r}'\hat{\boldsymbol{\theta}}$$

$$\hat{\mathbf{x}}_{0}$$

$$\hat{\mathbf{x}}_{1}$$