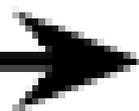


$$\begin{bmatrix} u_f \\ dh_f \\ dr_f \end{bmatrix}$$



$$\mathbf{J}_{s,h}^{-1}$$



$$\begin{bmatrix} dz_f \\ r_{yf} \\ r_{xf} \end{bmatrix}$$