$u(\tilde{x}) = [\alpha(\tilde{x}), \beta(\tilde{x}), \gamma(\tilde{x})], u'(\tilde{x}) = \frac{du}{d\tilde{x}} = \begin{bmatrix} \frac{d\alpha}{dx} & \frac{d\alpha}{dy} & \frac{d\alpha}{dz} \\ \frac{d\beta}{dx} & \frac{d\beta}{dy} & \frac{d\beta}{dz} \\ \frac{d\gamma}{dx} & \frac{d\gamma}{dy} & \frac{d\gamma}{dz} \end{bmatrix}$ $u_3 = [\alpha_3, \beta_3, \gamma_3]$ \vec{X}_3 $\tilde{\mathbf{u}}_1 u_2 = [\alpha_2, \beta_2, \gamma_2]$ \vec{x}_2 $u_1 = [\alpha_1, \beta_1, \gamma_1]$ $\vec{x}(\tilde{x})$

 $q = egin{bmatrix} lpha_1 & eta_1 & \gamma_1 \ lpha_2 & eta_2 & \gamma_2 \ lpha_3 & eta_3 & \gamma_3 \end{bmatrix}$