$$u(\tilde{x}) = [\alpha(\tilde{x}), \beta(\tilde{x}), \gamma(\tilde{x})], u'(\tilde{x}) = \frac{du}{d\tilde{x}} = \begin{bmatrix} \frac{d\alpha}{dx} & \frac{d\alpha}{dy} & \frac{d\alpha}{dz} \\ \frac{d\beta}{dx} & \frac{d\beta}{dy} & \frac{d\beta}{dz} \\ \frac{d\gamma}{dx} & \frac{d\gamma}{dy} & \frac{d\gamma}{dz} \end{bmatrix}$$

$$u_1 = [\alpha_1, \beta_1, \gamma_1]$$

$$u_2 = [\alpha_2, \beta_2, \gamma_2]$$

$$u_3 = [\alpha_3, \beta_3, \gamma_3]$$

$$u_3 = [\alpha_3, \beta_3, \gamma_3]$$

 \vec{x}_2