

$$\bar{\mathbf{r}} = \bar{\mathbf{v}} \times \bar{\mathbf{o}}$$

$$\bar{\mathbf{s}} = \bar{\mathbf{o}} \times \bar{\mathbf{u}}$$

$$\bar{\mathbf{n}} = \bar{\mathbf{u}} \times \bar{\mathbf{v}}$$

$$k_r = \bar{\mathbf{r}} \cdot (\bar{\mathbf{C}}_a - \bar{\mathbf{V}})$$

$$k_s = \bar{\mathbf{s}} \cdot (\bar{\mathbf{C}}_a - \bar{\mathbf{V}})$$

$$k_n = \bar{\mathbf{n}} \cdot (\bar{\mathbf{C}}_a - \bar{\mathbf{V}})$$

$$x(\theta, \nu) = \frac{\bar{\mathbf{r}} \cdot D_{-}A(\theta, \nu) + k_r \delta(\theta, \nu)}{\bar{\mathbf{n}} \cdot D_{-}A(\theta, \nu) + k_n \delta(\theta, \nu)}$$

$$y(\theta, \nu) = \frac{\bar{\mathbf{s}} \cdot D_{-}A(\theta, \nu) + k_s \delta(\theta, \nu)}{\bar{\mathbf{n}} \cdot D_{-}A(\theta, \nu) + k_n \delta(\theta, \nu)}$$

where

- $\bar{\mathbf{v}} \in \mathbb{R}^3$
- $\bar{\mathbf{o}} \in \mathbb{R}^3$
- $\bar{\mathbf{u}} \in \mathbb{R}^3$
- $\bar{\mathbf{V}} \in \mathbb{R}^3$
- $\bar{\mathbf{C}}_a \in \mathbb{R}^3$
- $\theta \in \mathbb{R}$
- $\nu \in \mathbb{R}$
- $D_{-}A \in \mathbb{R}, \mathbb{R} \rightarrow \mathbb{R}^3$
- $\delta \in \mathbb{R}, \mathbb{R} \rightarrow \mathbb{R}$