

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

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

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

$$k_{\text{r}} = \bar{\boldsymbol{r}} \cdot (\boldsymbol{C}_a - \boldsymbol{V})$$

$$k_{\text{s}} = \bar{\boldsymbol{s}} \cdot (\boldsymbol{C}_a - \boldsymbol{V})$$

$$k_{\text{n}} = \bar{\boldsymbol{n}} \cdot (\boldsymbol{C}_a - \boldsymbol{V})$$

$$x(\theta, \nu) = \frac{\bar{\boldsymbol{r}} \cdot D_{\text{-}}A(\theta, \nu) + k_{\text{r}}\delta(\theta, \nu)}{\bar{\boldsymbol{n}} \cdot D_{\text{-}}A(\theta, \nu) + k_{\text{n}}\delta(\theta, \nu)}$$

$$y(\theta, \nu) = \frac{\bar{\boldsymbol{s}} \cdot D_{\text{-}}A(\theta, \nu) + k_{\text{s}}\delta(\theta, \nu)}{\bar{\boldsymbol{n}} \cdot D_{\text{-}}A(\theta, \nu) + k_{\text{n}}\delta(\theta, \nu)}$$

where

$$\bar{\boldsymbol{v}} \in \mathbb{R}^3$$

$$\bar{\boldsymbol{o}} \in \mathbb{R}^3$$

$$\bar{\boldsymbol{u}} \in \mathbb{R}^3$$

$$\boldsymbol{V} \in \mathbb{R}^3$$

$$\boldsymbol{C}_a \in \mathbb{R}^3$$

$$\theta \in \mathbb{R}$$

$$\nu \in \mathbb{R}$$

$$D_{\text{-}}A \in \mathbb{R}, \mathbb{R} \rightarrow \mathbb{R}^3$$

$$\delta \in \mathbb{R}, \mathbb{R} \rightarrow \mathbb{R}$$