$$\begin{split} \bar{r} &= \bar{v} \times \bar{o} \\ \bar{s} &= \bar{o} \times \bar{u} \\ \bar{n} &= \bar{u} \times \bar{v} \\ k_r &= \bar{r} \cdot (\bar{C}_a - \bar{V}) \\ k_s &= \bar{s} \cdot (\bar{C}_a - \bar{V}) \\ k_n &= \bar{n} \cdot (\bar{C}_a - \bar{V}) \\ x(\theta, v) &= \frac{\bar{r} \cdot D_- A(\theta, v) + k_r \delta(\theta, v)}{\bar{n} \cdot D_- A(\theta, v) + k_s \delta(\theta, v)} \\ y(\theta, v) &= \frac{\bar{s} \cdot D_- A(\theta, v) + k_s \delta(\theta, v)}{\bar{n} \cdot D_- A(\theta, v) + k_s \delta(\theta, v)} \end{split}$$

where

$$ar{u} \in \mathbb{R}^3$$
 $ar{V} \in \mathbb{R}^3$
 $ar{C}_a \in \mathbb{R}^3$
 $eta \in \mathbb{R}$
 $v \in \mathbb{R}$
 $v \in \mathbb{R}$
 $D_A \in \mathbb{R}, \mathbb{R} \to \mathbb{R}^3$
 $\delta \in \mathbb{R}, \mathbb{R} \to \mathbb{R}$

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

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