

$$\varepsilon = 10^{-4}$$

$$\lambda_i = \frac{2\langle \boldsymbol{n}_i + \langle \boldsymbol{n}_i, \boldsymbol{n}_j \rangle \boldsymbol{n}_j, \boldsymbol{v}_j - \boldsymbol{v}_i \rangle}{1 - \langle \boldsymbol{n}_i, \boldsymbol{n}_j \rangle^2 + \varepsilon}$$

$$\lambda_j = \frac{2\langle \boldsymbol{n}_j + \langle \boldsymbol{n}_j, \boldsymbol{n}_i \rangle \boldsymbol{n}_i, \boldsymbol{v}_i - \boldsymbol{v}_j \rangle}{1 - \langle \boldsymbol{n}_j, \boldsymbol{n}_i \rangle^2 + \varepsilon}$$

$$\boldsymbol{q}_{ij} = \frac{1}{2}(\boldsymbol{v}_i + \boldsymbol{v}_j) - \frac{1}{4}(\lambda_i \boldsymbol{n}_i + \lambda_j \boldsymbol{n}_j)$$

where

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

$$\boldsymbol{n}_i \in \mathbb{R}^3$$

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

$$\boldsymbol{n}_j \in \mathbb{R}^3$$