对于一个面:有三个顶点在。
$$\overrightarrow{b}$$
. \overrightarrow{c}

$$S_{5} = S_{5} S_{5} \cdot \mathcal{E}_{5}$$

$$T_{5} = V_{5} V_{5}$$

$$= \begin{bmatrix} \overline{b}_{5} - \overline{a}_{5} \\ \overline{c}_{5} - \overline{a}_{5} \end{bmatrix} V_{5}^{-1}$$

$$= \begin{bmatrix} \overline{b}_{5} \\ \overline{c}_{5} \\ \overline{d}_{5} \end{bmatrix} - \begin{bmatrix} \overline{a}_{5} \\ \overline{a}_{5} \\ \overline{a}_{5} \end{bmatrix} V_{5}^{-1}$$

$$= \begin{bmatrix} \overline{b}_{5} \\ \overline{c}_{5} \\ \overline{c}_{5} \end{bmatrix} - \begin{bmatrix} \overline{a}_{5} \\ \overline{a}_{5} \\ \overline{a}_{5} \end{bmatrix} V_{5}^{-1}$$

$$= \begin{bmatrix} \overline{b}_{5} \\ \overline{c}_{5} \\ \overline{c}_{5} \end{bmatrix} - \begin{bmatrix} \overline{a}_{5} \\ \overline{a}_{5} \\ \overline{a}_{5} \end{bmatrix} V_{5}^{-1}$$

$$= \begin{bmatrix} \overline{b}_{5} \\ \overline{c}_{5} \\ \overline{c}_{5} \end{bmatrix} - \begin{bmatrix} \overline{a}_{5} \\ \overline{a}_{5} \\ \overline{a}_{5} \end{bmatrix} V_{5}^{-1}$$

$$= \begin{bmatrix} \overline{b}_{5} \\ \overline{c}_{5} \\ \overline{c}_{5} \end{bmatrix} - \begin{bmatrix} \overline{a}_{5} \\ \overline{a}_{5} \\ \overline{c}_{5} \end{bmatrix} V_{5}^{-1}$$

$$= \begin{bmatrix} \overline{b}_{5} \\ \overline{c}_{5} \\ \overline{c}_{5} \end{bmatrix} - \begin{bmatrix} \overline{a}_{5} \\ \overline{a}_{5} \\ \overline{c}_{5} \end{bmatrix} V_{5}^{-1}$$

$$= \begin{bmatrix} \overline{b}_{5} \\ \overline{c}_{5} \\ \overline{c}_{5} \end{bmatrix} - \begin{bmatrix} \overline{a}_{5} \\ \overline{a}_{5} \\ \overline{c}_{5} \end{bmatrix} V_{5}^{-1}$$

$$= \begin{bmatrix} \overline{b}_{5} \\ \overline{c}_{5} \\ \overline{c}_{5} \end{bmatrix} - \begin{bmatrix} \overline{a}_{5} \\ \overline{a}_{5} \\ \overline{c}_{5} \end{bmatrix} V_{5}^{-1}$$

$$= \begin{bmatrix} \overline{b}_{5} \\ \overline{c}_{5} \\ \overline{c}_{5} \end{bmatrix} - \begin{bmatrix} \overline{a}_{5} \\ \overline{a}_{5} \\ \overline{c}_{5} \end{bmatrix} V_{5}^{-1}$$

$$= \begin{bmatrix} \overline{b}_{5} \\ \overline{c}_{5} \\ \overline{c}_{5} \end{bmatrix} - \begin{bmatrix} \overline{a}_{5} \\ \overline{c}_{5} \\ \overline{c}_{5} \end{bmatrix} V_{5}^{-1}$$

$$= \begin{bmatrix} \overline{b}_{5} \\ \overline{c}_{5} \\ \overline{c}_{5} \end{bmatrix} - \begin{bmatrix} \overline{a}_{5} \\ \overline{c}_{5} \\ \overline{c}_{5} \end{bmatrix} V_{5}^{-1}$$

$$= \begin{bmatrix} \overline{b}_{5} \\ \overline{c}_{5} \\ \overline{c}_{5} \end{bmatrix} - \begin{bmatrix} \overline{a}_{5} \\ \overline{c}_{5} \\ \overline{c}_{5} \end{bmatrix} V_{5}^{-1}$$

$$= \begin{bmatrix} \overline{b}_{5} \\ \overline{c}_{5} \\ \overline{c}_{5} \end{bmatrix} - \begin{bmatrix} \overline{a}_{5} \\ \overline{c}_{5} \\ \overline{c}_{5} \end{bmatrix} V_{5}^{-1}$$

$$= \begin{bmatrix} \overline{b}_{5} \\ \overline{c}_{5} \\ \overline{c}_{5} \end{bmatrix} - \begin{bmatrix} \overline{a}_{5} \\ \overline{c}_{5} \\ \overline{c}_{5} \end{bmatrix} V_{5}^{-1}$$

$$\begin{array}{lll}
 & \underset{\longrightarrow}{\text{min}} \sum || S_{\overline{j}} - \overline{T}_{\overline{j}} || \\
 & = \underset{\longrightarrow}{\text{min}} \sum || \times \widehat{\nabla}_{i}^{-1} - \widehat{S}_{j}^{-1} S_{j}^{-1} || \\
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$$= \min \left[\left| \begin{array}{c} x \hat{V}_{i}^{T} - \hat{S}_{i} \hat{S}_{j}^{T} \right| \\ \hat{C}_{i} \\ \end{array} \right]$$

$$= \min \left[\left| \begin{array}{c} \hat{V}_{i}^{T} \\ \hat{V}_{i}^{T} \end{array} \right| \right]$$

$$= \min \left[\left| \begin{array}{c} \hat{V}_{i}^{T} \\ \hat{V}_{i}^{T} \\ \end{array} \right| \right]$$

$$= \min \left[\left| \begin{array}{c} \hat{V}_{i}^{T} \\ \hat{V}_{i}^{T} \\ \end{array} \right| \right]$$

Cm,

20 | A x7 - b |

 $\begin{array}{c|c} C_1 \\ C_2 \end{array}$ Cm

 $\in \mathbb{R}^{(3\times m)\times(n+m)}$

€ R (3xm) x3

 $A^TA x = A^Tb$

5 6 R3x3

2 ER3×(n+m)

(N+m)x3