$$P_{z}^{iT}b \cdot \frac{T_{x}^{i}}{T_{z}^{i}} - P_{x}^{iT}b = 0$$

$$P_{z}^{iT}b \cdot \frac{T_{y}^{i}}{T_{z}^{i}} - P_{y}^{iT}b = 0$$

$$P_{z}^{iT}b \cdot \frac{T_{y}^{i}}{T_{z}^{i}} - P_{z}^{iT}b + P_{zz}^{iT}b + P_{zz$$

$$K^i = \begin{bmatrix} f^i & 0 & u^1_0 \\ 0 & \alpha f^i & v^1_0 \\ 0 & 0 & -1 \end{bmatrix} = \begin{bmatrix} f^i & 0 & 0 \\ 0 & f^i & 0 \\ 0 & 0 & -1 \end{bmatrix}$$

$$M^i = K^i \cdot R^i = \begin{bmatrix} f^i & 0 & 0 \\ 0 & f^i & 0 \\ 0 & 0 & -1 \end{bmatrix} \cdot \begin{bmatrix} R_x^{iT} \\ R_y^{iT} \\ R_z^{iT} \end{bmatrix} = \begin{bmatrix} f^i \cdot R_x^{iT} \\ f^i \cdot R_y^{iT} \\ -R_z^{iT} \end{bmatrix}$$

$$\begin{split} M_x^{iT} \cdot M_x^{iT} &= M_y^{iT} \cdot M_y^{iT} \\ M_x^{iT} \cdot M_y^{iT} &= 0 \\ M_y^{iT} \cdot M_z^{iT} &= 0 \\ M_z^{iT} \cdot M_x^{iT} &= 0 \end{split}$$

$$Q = \begin{bmatrix} q_{00} & q_{01} & q_{02} & q_{03} \\ q_{01} & q_{11} & q_{12} & q_{13} \\ q_{02} & q_{12} & q_{22} & q_{23} \\ q_{03} & q_{13} & q_{23} & q_{33} \end{bmatrix}$$
$$MM^{T} = PQP^{T}$$

$$P_{x}^{iT}QP_{y}^{i}=0$$

$$P_{x}^{iT}QP_{y}^{i}=0$$

$$P_{y}^{iT}QP_{z}^{i}=0$$

$$P_{z}^{iT}QP_{z}^{i}=0$$

$$P_{z}^{i}Q_{00}+P_{z}^{i}Q_{01}+P_{z}^{i}Q_{01}+P_{z}^{i}Q_{02}+P_{z}^{i}Q_{01}+P_{z}^{i}Q_{01}+P_{z}^{i}Q_{01}+P_{z}^{i}Q_{01}+P_{z}^{i}Q_{01}+P_{z}^{i}Q_{02}+P_{z}^{i}Q_{02}+P_{z}^{i}Q_{01}+P_{z}^{i}Q$$

 $P_x^{iT}QP_x^i - P_y^{iT}QP_y^i = 0$ 

$ \begin{bmatrix} P_{x0}^2 - P_{y0}^2 \\ P_{x0}P_{y0} \\ P_{y0}P_{z0} \\ P_{x0}P_{z0} \\ P_{x0}P_{z0} \\ P_{z0}^2 \end{bmatrix} $
$\begin{aligned} &2P_{x0}P_{x1}-2P_{y0}P_{y1}\\ &P_{x0}P_{y1}+P_{x1}P_{y0}\\ &P_{y0}P_{z1}+P_{y1}P_{z0}\\ &P_{y0}P_{z1}+P_{y1}P_{z0}\\ &P_{x0}P_{z1}+P_{x1}P_{z0}\\ &2P_{z0}P_{z1}\end{aligned}$
$\begin{aligned} &2P_{x0}P_{x2}-2P_{y0}P_{y2}\\ &P_{x0}P_{y2}+P_{x2}P_{y0}\\ &P_{y0}P_{z2}+P_{y2}P_{z0}\\ &P_{y0}P_{z2}+P_{y2}P_{z0}\\ &P_{x0}P_{z2}+P_{x2}P_{z0}\\ &2P_{z0}P_{z2}\end{aligned}$
$\begin{aligned} &2P_{x0}P_{x3}-2P_{y0}P_{y3}\\ &P_{x0}P_{y3}+P_{x3}P_{y0}\\ &P_{y0}P_{z3}+P_{y3}P_{z0}\\ &P_{y0}P_{z3}+P_{y3}P_{z0}\\ &P_{x0}P_{z3}+P_{x3}P_{z0}\\ &2P_{z0}P_{z3}\end{aligned}$
$P_{x1}^2 - P_{y1}^2 \ P_{x1}P_{y1} \ P_{y1}P_{z1} \ P_{y1}P_{z1} \ P_{x1}P_{z1} \ P_{x1}P_{z1}$
$\begin{aligned} &2P_{x1}P_{x2}-2P_{y1}P_{y2}\\ &P_{x1}P_{y2}+P_{x2}P_{y1}\\ &P_{y1}P_{z2}+P_{y2}P_{z1}\\ &P_{y1}P_{z2}+P_{y2}P_{z1}\\ &P_{x1}P_{z2}+P_{x2}P_{z1}\\ &2P_{z1}P_{z2}\end{aligned}$
$\begin{aligned} &2P_{x1}P_{x3}-2P_{y1}P_{y3}\\ &P_{x1}P_{y3}+P_{x3}P_{y1}\\ &P_{y1}P_{z3}+P_{y3}P_{z1}\\ &P_{x1}P_{z3}+P_{y3}P_{z1}\\ &P_{x1}P_{z3}+P_{x3}P_{z1}\\ &2P_{z1}P_{z3}\end{aligned}$
$P_{x2}^{2} - P_{y2}^{2} \\ P_{x2}P_{y2} \\ P_{y2}P_{y2} \\ P_{y2}P_{z2} \\ P_{x2}P_{z2} \\ P_{x2}P_{z2} \\ P_{z2}^{2}$
$\begin{aligned} &2P_{x2}P_{x3}-2P_{y2}P_{y3}\\ &P_{x2}P_{y3}+P_{x3}P_{y2}\\ &P_{y2}P_{z3}+P_{y3}P_{z2}\\ &P_{y2}P_{z3}+P_{y3}P_{z2}\\ &P_{x2}P_{z3}+P_{x3}P_{z2}\\ &2P_{z2}P_{z3}\end{aligned}$
$P_{x3}^{2} - P_{y3}^{2}$ $P_{x3}P_{y3}$ $P_{y3}P_{z3}$ $P_{y3}P_{z3}$ $P_{x3}P_{z3}$ $P_{x3}P_{z3}$
900 901 902 903 911 912 912 913 922 923