
$$\mathbf{R}_1 \begin{bmatrix} 0.9999999987 & 4.47 \times 10^{-5} & -0.000153907 \\ -4.48 \times 10^{-5} & 0.9999999862 & -0.000522559 \\ 0.000153883 & 0.000522566 & 0.9999999852 \end{bmatrix} \quad \mathbf{T}_1 \quad [\quad 0.337889015 \quad 0.037944696 \quad -0.072290709]$$

$$\mathbf{PE}_1 \quad [\quad 0.030363 \quad 0.003006 \quad -0.003109 \\ -0.025868 \quad -0.026018 \quad 0.032532]$$
