$$\begin{pmatrix} x \\ y \\ z \end{pmatrix}_{1} = \begin{pmatrix} c_{3} & -s_{3} & 0 \\ s_{3} & c_{3} & 0 \\ 0 & 0 & 1 \end{pmatrix} \begin{pmatrix} 1 & 0 & 0 \\ 0 & c_{2} & s_{2} \\ 0 & -s_{2} & c_{2} \end{pmatrix} \begin{pmatrix} c_{1} & 0 & s_{1} \\ 0 & 1 & 0 \\ -s_{1} & 0 & c_{1} \end{pmatrix} \begin{pmatrix} x - DX \\ y - DY \\ z \end{pmatrix}_{0} ,$$
 (102)