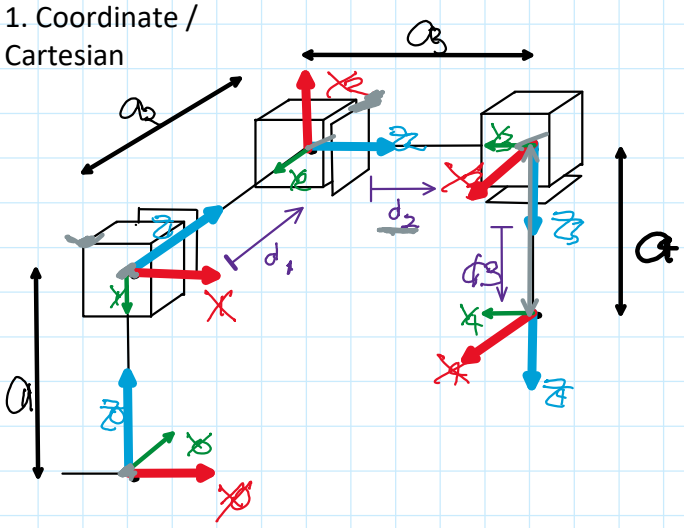
Position Vectors of Cartesian Manipulator

Friday, 4 November 2022 10:58 am

1. Coordinate / Cartesian



$$ {}^{0}_{1}P = \begin{bmatrix} 0 \\ 0 \\ a_1 \end{bmatrix} \begin{matrix} {}^{0}_{1}x \\ {}^{0}_{1}y \\ {}^{0}_{1}z \end{matrix} \qquad {}^{1}_{2}P = \begin{bmatrix} 0 \\ 0 \\ a_2 + d_1 \end{bmatrix} \begin{matrix} {}^{1}_{2}x \\ {}^{1}_{2}y \\ {}^{1}_{2}z \end{matrix} $$

$$ {}^{2}_{3}P = \begin{bmatrix} 0 \\ 0 \\ a_3 + d_2 \end{bmatrix} \begin{matrix} {}^{2}_{3}x \\ {}^{2}_{3}y \\ {}^{2}_{3}z \end{matrix} \qquad {}^{3}_{4}P = \begin{bmatrix} 0 \\ 0 \\ a_4 + d_3 \end{bmatrix} \begin{matrix} {}^{3}_{4}x \\ {}^{3}_{4}y \\ {}^{3}_{4}z \end{matrix} $$