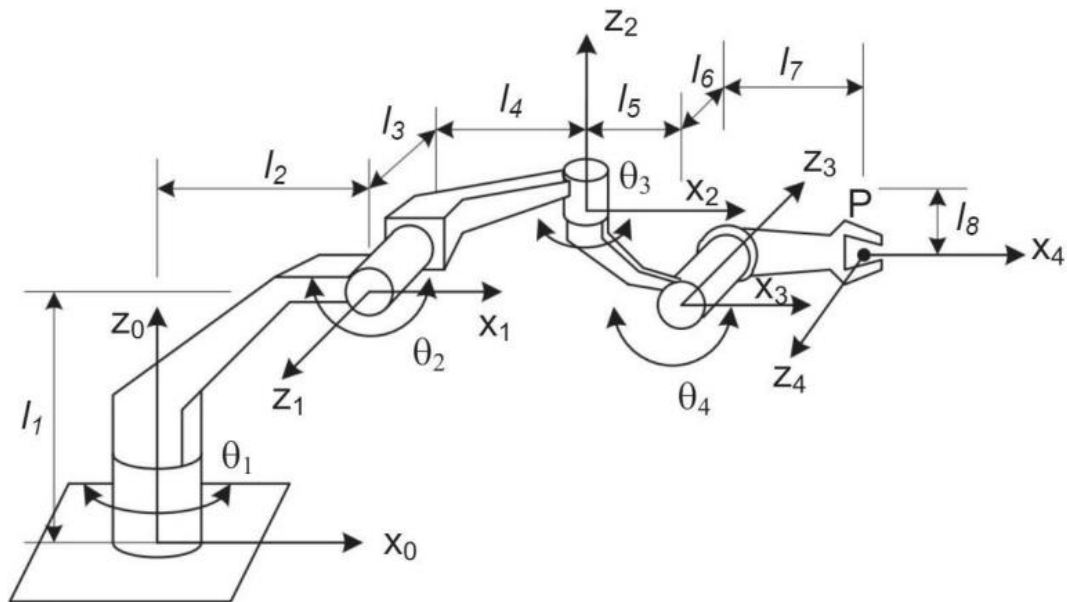


Mai Công Tuấn Kiệt

MSSV: 20146190

Bài tập tuần 7

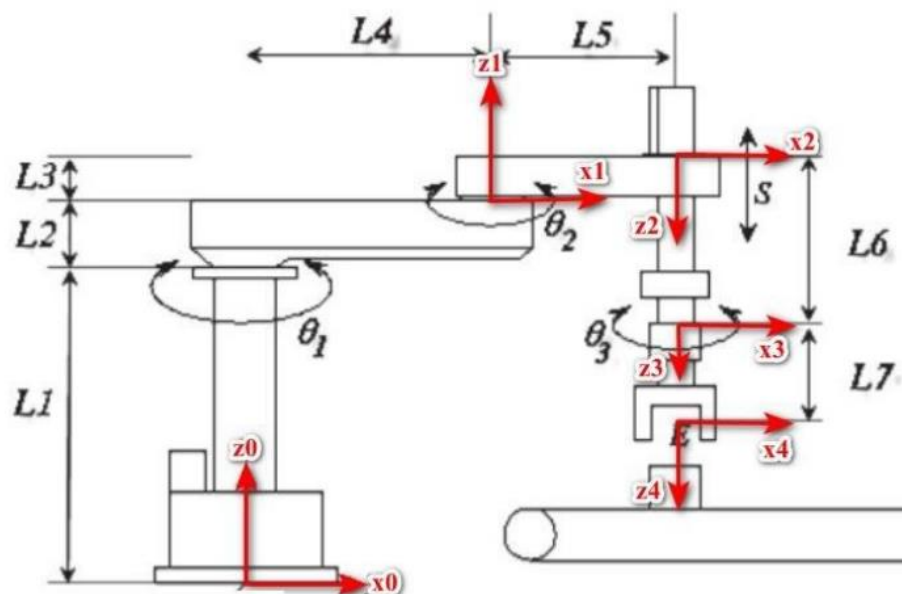
Bài 1:



Bảng:

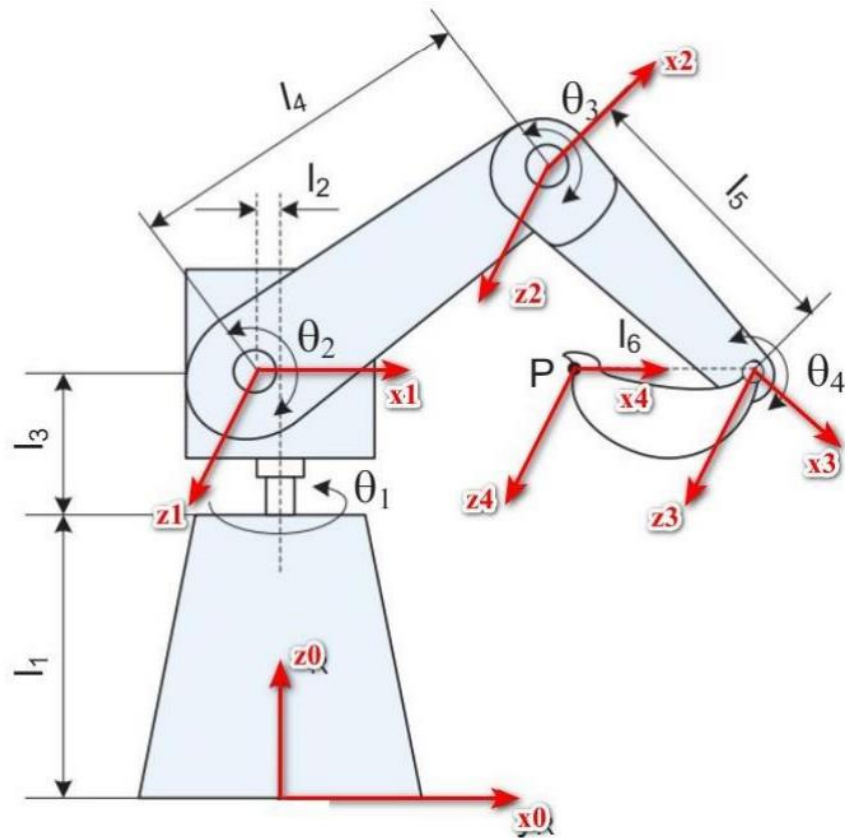
Khớp	θ	α	a	d	Bảng
1	θ_1	$\frac{\pi}{2}$	l_2	l_1	θ_1
2	θ_2	$-\frac{\pi}{2}$	l_4	l_3	θ_2
3	θ_3	$-\frac{\pi}{2}$	l_5	l_6	θ_3
4	θ_4	π	l_7	l_8	θ_4

Bài tập 2:



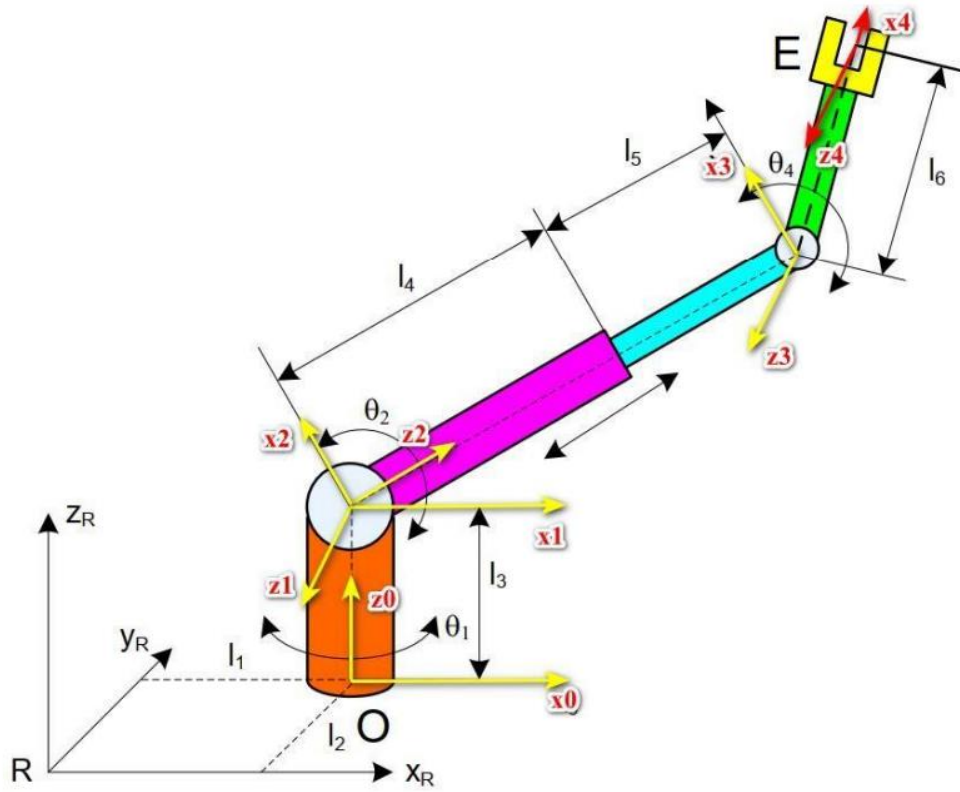
BT2:

Kớp	θ	α	l	d	Biến
1	θ_1	0	l_4	$l_1 + l_3$	θ_1
2	θ_2	π	l_5	l_3	θ_2
3	θ_3	0	0	$l_6 + s$	s
4	θ_3	0	0	l_7	θ_2



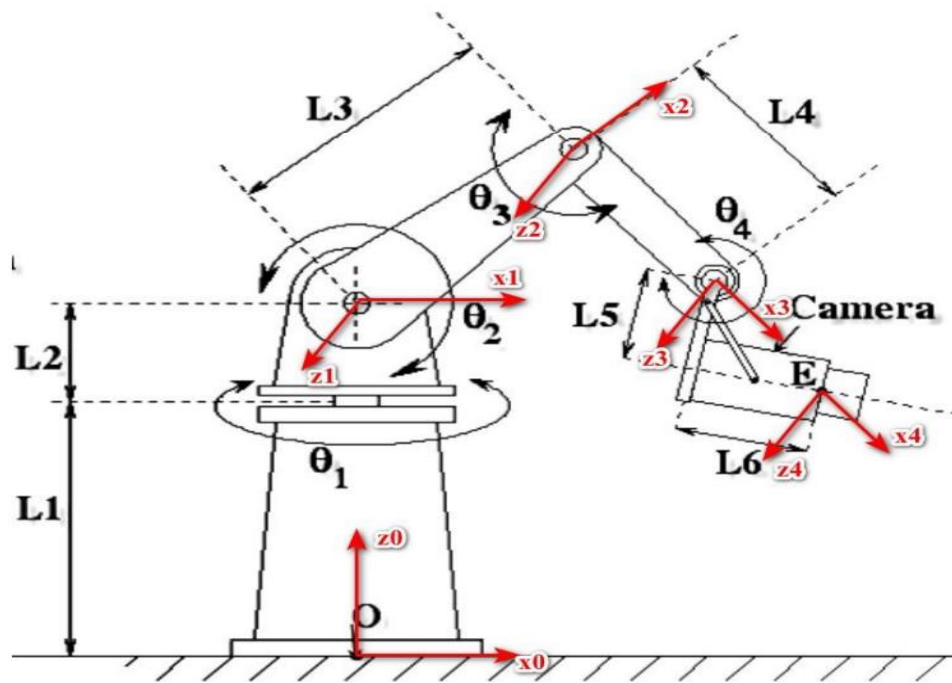
BT3

Khop	θ	α	a	d	Bin
1	θ_1	$\frac{\pi}{2}$	l_2	$l_1 + l_3$	θ_1
2	θ_2	0	l_4	0	θ_2
3	θ_3	0	l_5	0	θ_3
4	θ_4	0	l_6	0	θ_4



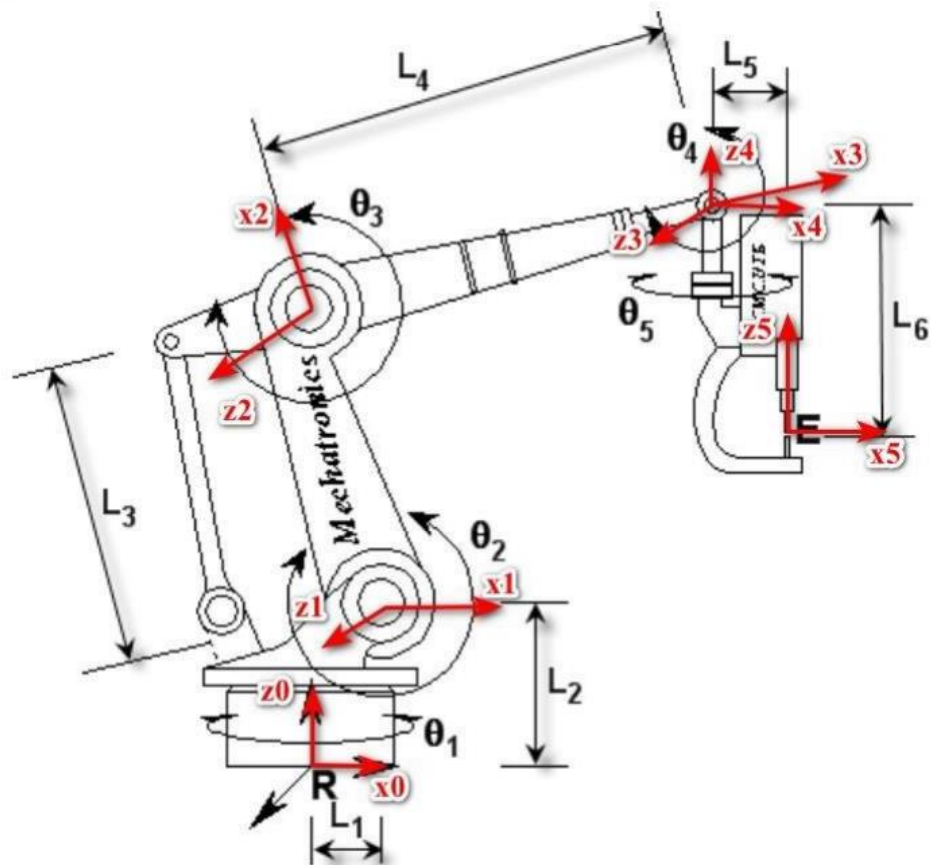
BT4.

Knopf	θ	α	l	d	Bew
1	θ_1	$\frac{\pi}{2}$	0	p_3	θ_1
2	$\theta_2 + \frac{\pi}{2}$	$+\frac{\pi}{2}$	0	0	θ_2
3	0	$-\frac{\pi}{2}$	0	$p_4 + p_5$	p_5
4	$\theta_4 + \frac{\pi}{2}$	0	p_6	0	θ_4



BT 4

Link	θ	α	ρ	d	Joint
1	θ_1	$\frac{\pi}{2}$	0	$L_1 + L_2$	θ_1
2	θ_2	0	L_3	0	θ_2
3	θ_3	0	L_4	0	θ_3
4	θ_4	0	$\sqrt{L_5^2 + L_6^2}$	0	θ_4



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Link	θ	α	a	d	Rev
1	θ_1	$\frac{\pi}{2}$	L_1	L_2	θ_1
2	θ_2	0	L_3	0	θ_2
3	θ_3	0	L_4	0	θ_3
4	θ_4	$-\frac{\pi}{2}$	0	0	θ_4
5	θ_5	0	L_5	L_6	θ_5