

Universidade Federal de Lavras

Engenharia de Controle e Automação

Robótica

Professor: Leonardo Paiva

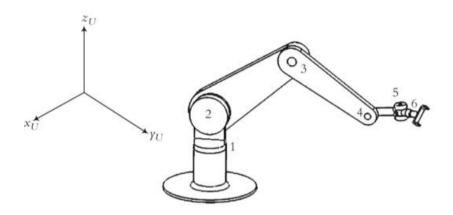
Data:

Aluno:

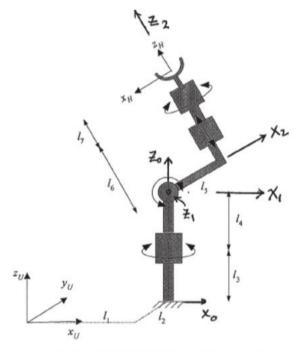
Dados as seguintes anatomias de manipuladores abaixo, determine os parâmetros de Denavithartemberg

Exercício

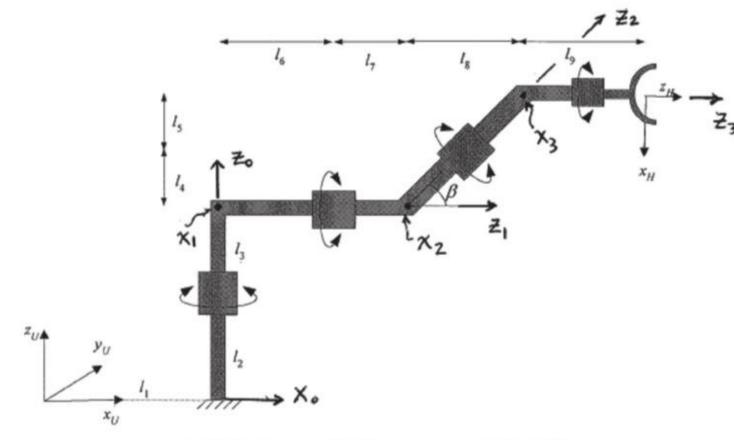
a)



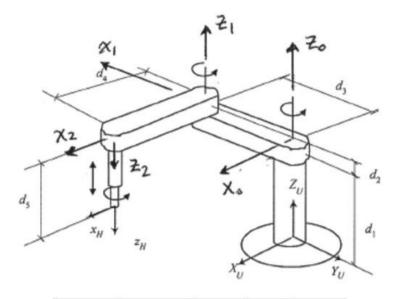
b)



#	$\theta$	d	a	α
0-1	θı	13+14	٥	90
1-2	θz	۵	l5	-90
2-H	180+0,	26+17	0	0

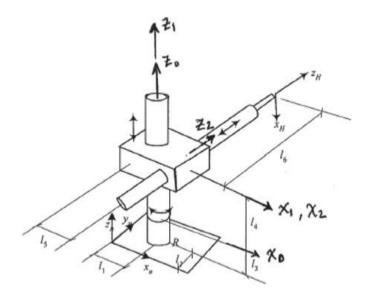


#	θ	d	a	α
0-1	ÐI	12+13	٥	-90
1-2	82	26+27	0	β
2-3	03	L*	٥	- B
3-H	04	19	0	0



#	$\theta$	d	a	α
0-1	$\theta_{_{\! 1}}$	0	$d_3$	0
1-2	$\theta_{\scriptscriptstyle 2}$	0	$d_4$	180
2- <i>H</i>	$\theta_{_{3}}$	$d_5$	0	0

e)



#	$\theta$	d	a	α
0-1	$\theta_{_{\! 1}}$	$l_4$	0	0
1-2	0	0	$l_5$	-90
2- <i>H</i>	90	$l_6$	0	0