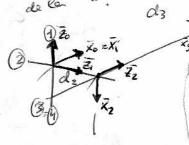


podemos dibujar esto missero con etra orientación de la herramienta para entender mejor como quedam las termos de la disco agá para amba. de.



Cristoleterninado: lo pargo arí anulamos 03

table DH. para la pose inicial. (\$5.1 \ \25 = \vec{2}{6})

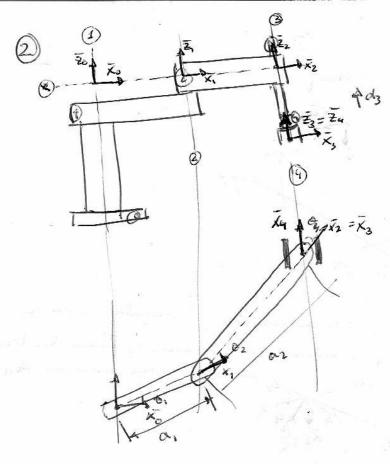
	la	d	×	0	
i	0	0	90	(0:0)	
2	0	dz	-90	02= -90	4
3	0	(d3)	0	0	
4	0	0'	90	(90)	+7
5	0	0	-90	(0)	1
6	0	0	0	(0)	

$$A_{i-1} = \begin{bmatrix} Ce_i & -Se_i & Ca_i & Se_i & Sa_i & Ca_i & Se_i & Sa_i & Ca_i & Se_i \\ Se_i & Ce_i & Ca_i & -Ce_i & Sa_i & Ca_i & Ca_i \\ 0 & Sa_i & Ca_i & Ca_i & Ca_i \\ 0 & 0 & 0 & 1 \end{bmatrix}$$

$$A_{0}^{2} = \begin{cases} S_{1} & 0 & -C_{1} & 0 \\ 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 1 \end{cases}$$

$$A_{1}^{2} = \begin{cases} C_{2} & 0 & -S_{2} & \infty \\ S_{2} & 0 & C_{2} & 0 \\ 0 & 0 & 0 & 1 \end{cases}$$

$$A_{1}^{3} = \begin{cases} C_{2} & 0 & -S_{2} & \infty \\ S_{2} & 0 & C_{2} & 0 \\ 0 & 0 & 0 & 1 \end{cases}$$



$$\begin{array}{c|cccc}
1 & a_1 & 0 & 0 & 0 \\
2 & a_2 & 0 & 0 & 0 \\
3 & 0 & 0 & 0 & 0 \\
4 & 0 & 0 & 0 & 0 \\
4 & 0 & 0 & 0 & 0 \\
A_0 & 0 & 0 & 0 & 0 \\
A_1 & 0 & 0 & 0 & 0 & 0 \\
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A_5 & 0 & 0 & 0 & 0 & 0 \\
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A_7 & 0 & 0 & 0 & 0 & 0 \\
A_7 & 0 & 0 & 0 & 0 & 0 \\
A_7 & 0 &$$

A4 = \begin{pmatrix} C_{124} & -S_{124} & 0 & a_2C_{12} & +a_1C_1 \\
S_{124} & C_{124} & 0 & a_2S_{12} & +a_1S_1 \\
0 & 0 & 0 & 0 & a_3 \\
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$$A_{2}^{1} = A_{2}^{3} . A_{3}^{4} = \begin{bmatrix} c_{4} & -s_{4} & 0 & 0 \\ s_{4} & c_{4} & 0 & 0 \\ 0 & 0 & i & cl_{3} \\ 0 & 0 & 0 & 1 \end{bmatrix}$$

Se complica répidemente.

Primero ditenço el ? in. de la posición de la numera

$$\begin{bmatrix} a_2 c_2 \\ a_2 c_2 \\ c c_3 \\ 1 \end{bmatrix} = \begin{bmatrix} p_k c_1 + p_y c_1 - a_1 \\ p_x c_1 + p_y c_1 \\ p_z \\ 1 \end{bmatrix}$$

$$\begin{cases} P_{K}C_{1} + P_{Y}C_{1} = a_{2}C_{2} + a_{1} & \textcircled{1} \\ -P_{K}C_{1} + P_{Y}C_{1} = a_{2}S_{2} & \textcircled{2} \end{cases} \\ \begin{cases} P_{K}C_{1} + P_{Y}C_{1} = a_{2}S_{2} & \textcircled{1} \\ P_{K}C_{1} + P_{Y}C_{1} = a_{2}S_{2} & \textcircled{1} \end{cases} \\ (P_{K}C_{1} + P_{Y}C_{1})^{2} = (a_{2}C_{2} + a_{1})^{2} \\ (P_{K}C_{1} + P_{Y}C_{1})^{2} = (a_{2}S_{2})^{2} \end{cases} \\ (P_{K}C_{1} + P_{Y}C_{1})^{2} = (a_{2}S_{2})^{2} \end{cases} \\ P_{K}C_{1}^{2} + P_{Y}^{2}S_{1}^{2} + 2a_{1}A_{1}C_{2}a_{1} + a_{1}S_{2}^{2} \end{cases} \\ P_{K}C_{1}^{2} + P_{Y}^{2}S_{1}^{2} + 2a_{1}A_{2}C_{2}a_{1} + a_{1}S_{2}^{2} \end{cases} \\ P_{K}C_{1}^{2} + P_{Y}^{2}S_{1}^{2} + 2a_{1}A_{2}C_{2}a_{1} + a_{1}S_{2}^{2} \end{cases} \\ P_{K}C_{1}^{2} + P_{Y}^{2}S_{1}^{2} + 2a_{1}A_{2}C_{2}a_{1} + a_{1}S_{2}^{2} \end{cases} \\ P_{K}C_{1}^{2} + P_{Y}^{2}S_{1}^{2} + P_{X}^{2}S_{1}^{2} + P_{X}^{2}S_{1}$$

Py (PXS,+Px4) = 0,252 P4

20 1 d 2.5 = Puls = (a, C2 +a,) 7x + a2 52 Py

Ahora quede per sesolver le orientación de la herramienta.

(4) Jacdiane de volocidades.

$$J_{0_{1}}^{2} = \begin{bmatrix} \overline{P_{04}} \times \overline{X_{2}} |_{2} & \overline{P_{14}} \wedge \overline{X_{2}} |_{2} & \overline{X_{2}} |_{2} & \overline{P_{34}} \wedge \overline{X_{2}} |_{2} \\ \overline{P_{04}} \times \overline{Y_{2}} |_{2} & \overline{P_{34}} \wedge \overline{Y_{2}} |_{2} & \overline{Y_{2}} |_{2} & \overline{P_{34}} \wedge \overline{Y_{2}} |_{2} \\ \overline{P_{04}} \wedge \overline{Z_{2}} |_{2} & \overline{P_{14}} \wedge \overline{Z_{2}} |_{2} & \overline{Z_{2}} |_{2} & \overline{P_{34}} \wedge \overline{Z_{2}} |_{2} \\ \overline{P_{04}} \wedge \overline{Z_{2}} |_{2} & \overline{P_{14}} \wedge \overline{Z_{2}} |_{2} & \overline{Z_{2}} |_{2} & \overline{P_{34}} \wedge \overline{Z_{2}} |_{2} \\ \overline{Y_{2}} |_{2} & \overline{X_{2}} |_{2} & \overline{Z_{2}} |_{2} & \overline{Z_{2}} |_{2} \\ \overline{Y_{2}} |_{2} & \overline{Y_{2}} |_{2} & \overline{Z_{2}} |_{2} & \overline{Z_{2}} |_{2} \\ \overline{Y_{2}} |_{2} & \overline{Y_{2}} |_{2} & \overline{Z_{2}} |_{2} & \overline{Z_{2}} |_{2} \\ \overline{Z_{2}} |_{2} & \overline{Z_{2}} |_{2} & \overline{Z_{2}} |_{2} & \overline{Z_{2}} |_{2} \\ \overline{Z_{2}} |_{2} & \overline{Z_{2}} |_{2} & \overline{Z_{2}} |_{2} & \overline{Z_{2}} |_{2} \\ \overline{Z_{2}} |_{2} & \overline{Z_{2}} |_{2} & \overline{Z_{2}} |_{2} & \overline{Z_{2}} |_{2} \\ \overline{Z_{2}} |_{2} & \overline{Z_{2}} |_{2} & \overline{Z_{2}} |_{2} \\ \overline{Z_{2}} |_{2} & \overline{Z_{2}} |_{2} & \overline{Z_{2}} |_{2} \\ \overline{Z_{2}} |_{2} & \overline{Z_{2}} |_{2} & \overline{Z_{2}} |_{2} \\ \overline{Z_{2}} |_{2} & \overline{Z_{2}} |_{2} & \overline{Z_{2}} |_{2} \\ \overline{Z_{2}} |_{2} & \overline{Z_{2}} |_{2} & \overline{Z_{2}} |_{2} \\ \overline{Z_{2}} |_{2} & \overline{Z_{2}} |_{2} & \overline{Z_{2}} |_{2} \\ \overline{Z_{2}} |_{2} & \overline{Z_{2}} |_{2} & \overline{Z_{2}} |_{2} \\ \overline{Z_{2}} |_{2} & \overline{Z_{2}} |_{2} & \overline{Z_{2}} |_{2} \\ \overline{Z_{2}} |_{2} & \overline{Z_{2}} |_{2} & \overline{Z_{2}} |_{2} \\ \overline{Z_{2}} |_{2} & \overline{Z_{2}} |_{2} & \overline{Z_{2}} |_{2} \\ \overline{Z_{2}} |_{2} & \overline{Z_{2}} |_{2} & \overline{Z_{2}} |_{2} \\ \overline{Z_{2}} |_{2} & \overline{Z_{2}} |_{2} \\ \overline{Z_{2}} |_{2} & \overline{Z_{2}} |_{2} & \overline{Z_{2}} |_{2} \\ \overline{Z_{2}} |_{$$

pour esto vey a maritar A_{0}^{4} , A_{1}^{4} , A_{2}^{3} , A_{2}^{3} , A_{1}^{2} , A_{0}^{3} one falta $A_{0}^{2} = A_{0}^{1}A_{1}^{2} = \begin{cases} c_{12} - s_{12} & 0 & a_{2}c_{12} + a_{1}c_{1} \\ s_{12} - c_{12} & 0 & a_{2}s_{12} + a_{1}s_{1} \\ 0 & 0 & 1 & 1 \end{cases}$

$$|A| = |a_{2}c_{12} + a_{1}c_{1}| c_{12} + |a_{2}c_{12} + a_{1}c_{1}| c_{12}$$

$$= |a_{1}c_{12} + a_{1}c_{12}| c_{12} + |a_{1}c_{12} + |a_{1}c_{12}| c_{12}$$

$$= |a_{1}c_{12} + |a_{2}c_{12}| c_{12} + |a_{1}c_{12}| c_{12}$$

$$= |a_{1}c_{12} + |a_{2}c_{12}| c_{12}$$

$$\vec{P}_{0k} \wedge \vec{Z}_{2}^{\circ} \Big|_{z} = 0$$

$$\vec{X}_{2} \Big|_{z} = 0 \qquad \vec{Y}_{2}^{\circ} \Big|_{z} = 0 \qquad \vec{Z}_{2}^{\circ} \Big|_{z} = 1$$

Sejande colume: el aprite ele experço.

Vercera col.

$$|\vec{X}_{2}|_{2} = 0 \cdot |\vec{Y}_{2}|_{2} = 0 \cdot |\vec{Z}_{2}|_{2} = 1$$

Country Col.

Pgy
$$x \times x_{2}^{3}|_{2} = \begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix} \times x_{2}^{3}|_{2} = 0$$
.

P34 $x \times y_{2}^{3}|_{2} = ---=0$

P34 $x \times z_{2}^{3}|_{2} = ---=0$

Country $z_{3}^{2} = \overline{z}_{2} + \overline{z}_{3}^{2}|_{2} = \overline{z}_{3}^{3}|_{2} = 1$

$$J_{01}^{2} = \begin{cases} a_{1}s_{2} & 0 & 0 & 0 \\ a_{1}c_{2}+a_{2} & a_{2} & 0 & 0 \\ 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 \end{cases} + S_{01}d$$

Less
$$\frac{2}{\sqrt[3]{\pi/2}}$$
 $\frac{1}{\sqrt[3]{\pi/2}}$ $\frac{1}{$

$$c_2 = \frac{4z^2 - 2z^2}{2z^2} = 1$$
 $c_2 = 4 \text{ Tanz}(0, 1) = 0$

$$C_1 = a \left(\frac{2a}{4a^2} \right) + a \cdot \frac{2a}{4a^2} = 1$$

$$\Delta \overline{\Theta}' = \overline{\Theta}^{\text{fin}} - \overline{\Theta}' = \begin{bmatrix} 0 \\ -\frac{\pi}{2} \\ 0 \\ -\frac{\pi}{2} \end{bmatrix} \quad \text{wax} \left\{ \frac{\Delta \overline{\Theta}}{\Delta \overline{\Theta}_{\text{max}}} \right\} = \frac{\pi}{2} \text{ seg.}$$

$$\Delta \overline{\Theta}' = \overline{\Phi}^{\text{fin}} - \overline{\Theta}' = \begin{bmatrix} \frac{\pi}{2} \\ \frac{\pi}{2} \\ 0 \end{bmatrix} \quad \text{wax} \left\{ \frac{\Delta \overline{\Theta}}{\Delta \overline{\Theta}_{\text{max}}} \right\} = \frac{\pi}{2} \text{ seg.}$$

$$\Delta \overline{\Theta}' = \overline{\Phi}^{\text{fin}} - \overline{\Theta}' = \begin{bmatrix} \frac{\pi}{2} / 2 \\ \frac{\pi}{2} / 2 \\ 0 \end{bmatrix} \quad \text{wax} \left\{ \frac{\Delta \overline{\Theta}}{\Delta \overline{\Theta}_{\text{max}}} \right\} = \frac{\pi}{2} \text{ seg.}$$

$$\sqrt{\overline{O}^2} = \overline{\overline{O}}^{\text{fun}} - \overline{\overline{O}}^2 = \begin{bmatrix} \overline{K}/2 \\ \overline{V}/2 \\ \overline{O} \end{bmatrix} \quad \text{max}_{\text{f}} \left[\frac{|\overline{V}/2|}{|\overline{V}_{\text{max}}|} \right] = \frac{|\overline{V}/2|}{|\overline{V}/2|} = \frac$$

es le Sn. que taide mis en legar.

$$\frac{X_{2}}{Y_{2}} = \begin{bmatrix} \xi \\ \xi \\ 0 \end{bmatrix}$$

$$\frac{X_{2}}{S} = \begin{bmatrix} \xi \\ \xi \\ 0 \end{bmatrix}$$

$$\frac{X_{2}}{S} = \begin{bmatrix} \xi \\ -\delta \\ 0 \end{bmatrix}$$

$$\begin{bmatrix}
\Delta_{x} & -(2) \\
\Delta_{x} & -(2) \\
\Delta_{x} & -(2)
\end{bmatrix} = \int_{0_{1}}^{(2)} \Delta_{0} = \begin{bmatrix}
\alpha_{1} & 0 & 0 & 0 \\
\alpha_{2} & \alpha_{2} & 0 & 0 \\
0 & 0 & 1 & 0
\end{bmatrix} \begin{bmatrix}
\alpha_{0} & 0 & 0 & 0 \\
\Delta_{0} & 0 & 0 & 0 \\
0 & 0 & 1 & 0
\end{bmatrix} \begin{bmatrix}
\alpha_{0} & 0 & 0 & 0 \\
\Delta_{0} & 0 & 0 & 0 \\
0 & 0 & 1 & 0
\end{bmatrix}$$

$$\Delta\Theta_1 = 0$$
.
 $\Delta\Theta_1 + \Delta\Theta_1 + \Delta\Theta_2 = 0$
 $\Delta\Theta_1 = \varepsilon \Rightarrow \Delta\Theta_1 = \frac{\varepsilon}{\alpha_1}$
 $\Delta\Theta_1 = \varepsilon \Rightarrow \Delta\Theta_2 = -\delta \Rightarrow \Delta\Theta_2 = -\frac{\delta}{\alpha_2} = \frac{\varepsilon}{\alpha_1}$

$$\Delta\Theta_{4} = \frac{-\varepsilon}{4} + \frac{s}{\alpha_{2}} + \frac{\varepsilon}{4} = \frac{s}{\alpha_{2}}.$$

6 Pose =
$$\left[\frac{I \left[\frac{\alpha}{\sigma}\right]}{\sigma \cos \left[1\right]}\right]$$

P. invocaso:
$$C_2 = 2a^2 - 2c^2 = 0.$$

$$\Theta_2 = \Delta TAN2 \left(\pm \sqrt{1}, 0 \right)$$

$$\Theta_2 = \delta T/2$$

$$\Theta_2 = \tau \sqrt{2}$$

Si
$$\theta_2 = \frac{\pi/2}{C_1} = \frac{\alpha_1(\varphi_2) + \alpha_1 \varphi_2}{\alpha_1^2 + \alpha_2^2} = 1$$

$$\begin{cases} \varphi_1 = \alpha_2 + \alpha_2 \\ \varphi_2 = \alpha_2 \end{cases} = 0. \end{cases} \Rightarrow \begin{cases} \varphi_2 = A_1 + \alpha_2 + \alpha_2 \\ \varphi_1 = \alpha_2 + \alpha_2 \end{cases} = 0.$$

So
$$\Theta_{2} = -\frac{\pi}{2}$$
.
 $C_{1} = -\alpha^{2} + \alpha^{2} = 0$ $C_{1} = \alpha^{2} + \alpha^{2} = 1$
 $C_{1} = \alpha^{2} + \alpha^{2} = 1$
 $C_{1} = \alpha^{2} + \alpha^{2} = 1$