Tengo les signiernel ecuacionel.

$$\ddot{\theta} = -\alpha |\dot{\theta}| \dot{\theta} + ken (\dot{\theta}) - |\dot{\theta}| \dot{\theta} + lt$$

Asiemss.

H(s) = $\frac{1}{1}$ (1) = $\frac{1}{2}$ (1)

ST(s) + $\frac{1}{2}$ (1) = $\frac{1}{2}$ (1)

ST(s) + $\frac{1}{2}$ (1) = $\frac{1}{2}$ (1)

Entonces, delloro les signiernes ves de estado.

 $\chi_1 = \dot{\theta}$, $\chi_2 = \dot{\theta}$, $\chi_3 = t$, t =

Reemplezo en (1):

 $\chi_2 = -\alpha |\chi_1| \chi_1 + ken (\chi_1) - |\chi_2| \chi_2 + \chi_3$

Y en (2):

 $\chi_3 = \rho u - \rho \chi_3$.

El sist.

 $|\dot{\chi}_1 = \chi_2| (1)^{\prime}$
 $|\dot{\chi}_2 = -\alpha |\chi_1| \chi_1 + ken (\chi_1) - |\chi_1| \chi_2 + \chi_3$
 $|\dot{\chi}_3 = \rho u - \rho \chi_3| (3)^{\prime}$

 $\begin{aligned}
& \theta = \pm \frac{\pi}{6} \\
& (1)^{1} \cdot \cancel{x}_{1} = 0 \\
& = 0
\end{aligned}$ $\begin{aligned}
& (2)^{1} \cdot \cancel{x}_{2} = 0 \\
& = 0
\end{aligned}$ $\begin{aligned}
& (3)^{1} \cdot \cancel{x}_{3} = 0
\end{aligned}$ $\end{aligned}$ $\begin{aligned}
& (3)^{1} \cdot \cancel{x}_{3} = 0
\end{aligned}$ $\end{aligned}$ $\end{aligned}$ le rep. no uneal este dode por le 20s. (11', (2)' y (3)' NOTA