Rathamoson Prakityang #63205165 Force belonce equin

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$$\frac{3\lambda}{3\lambda} = \{\alpha(\alpha^{2} + 0) = [\alpha + 0] = [\alpha + 0$$

63 : A - 2 | - 2 | - 2 | $e^{At} = I + At + \frac{(At)^2}{31} + \dots$ $e^{-t} = 1 + -t_1 + \frac{t^2}{2!} - \frac{t^3}{3!}$ $e^{-2t} = 1 + -t_1 + \frac{t^2}{2!} - \frac{t^3}{3!}$ $e^{-2t} = 1 + -t_1 + \frac{t^2}{2!} - \frac{t^3}{3!}$ $te^{t} = 0 + t + \frac{-2t^{2}}{2!} + \frac{3t^{3}}{3!} + \frac{-4t^{4}}{1!} + \frac{t^{3}}{2!} + \frac{t^{4}}{3!} + \frac{t^{4}}{3!}$

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$$\frac{z}{\lambda^2 + 5\lambda} + 6$$

$$= (\lambda + 3)(\lambda + 2)$$

$$\frac{\lambda^2 - 2}{3} \quad \text{adistivet} \quad V$$

$$Ad=e^{At}-Te^{Dt}-T'=\begin{bmatrix}1\\-2\\-3\end{bmatrix}\begin{bmatrix}e^{-2t}&0\\0&e^{-2t}\end{bmatrix}\begin{bmatrix}1\\2&-3\end{bmatrix}^{-1}$$

$$= \left[\frac{e^{-2t}}{-2e^{-3t}} - \frac{e^{-3t}}{-7e^{-3t}} \right] \left[\frac{-3}{2} - \frac{1}{3} \right] - \frac{1}{3 + 2}$$

$$z = \begin{bmatrix} -27 \\ -6 \\ -2 \end{bmatrix} + \begin{bmatrix} -37 \\ -1 \\ 6 \end{bmatrix}$$

$$\frac{2}{3} \left[\frac{1}{6} - \frac{2\pi}{6} \left[\frac{3}{6} - \frac{1}{3} \right] + \frac{3\pi}{6} \left[\frac{-2}{6} - \frac{1}{3} \right] \right] + \frac{3\pi}{6} \left[\frac{-2}{6} - \frac{1}{3} \right] \right] = \frac{2\pi}{6} \left[\frac{3}{6} - \frac{1}{3} \right] + \frac{3\pi}{6} \left[\frac{-2}{6} - \frac{1}{3} \right] = \frac{3\pi}{6} \left[\frac{-2}{6} - \frac{2}{3} \right] = \frac{$$

$$= \left(\frac{2}{6} - 1 \begin{bmatrix} 3 & 1 \\ -6 & -1 \end{bmatrix} + \frac{6}{6} - 1 \begin{bmatrix} -2 & -17 \\ 6 & 3 \end{bmatrix}\right) \cdot \begin{bmatrix} 0 \\ 1 \end{bmatrix}$$

$$=\frac{e^{-27}}{-2}\left[\frac{1}{-2}\right]+\frac{e^{-37}}{3}\left[\frac{1}{3}\right]$$

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MATLAB section:

I wrote the variables in Matlab then load it into Simulink.

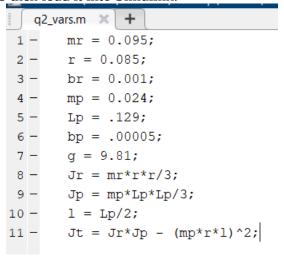


Fig 1: Matlab code

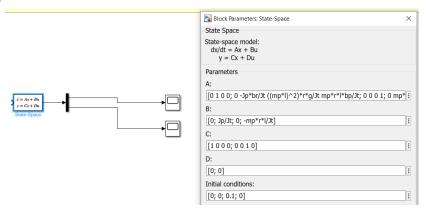


Fig 2: Simulink model

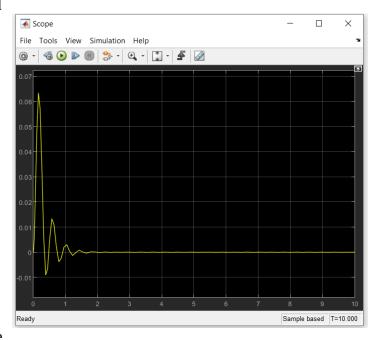


Fig 3: Angle over time

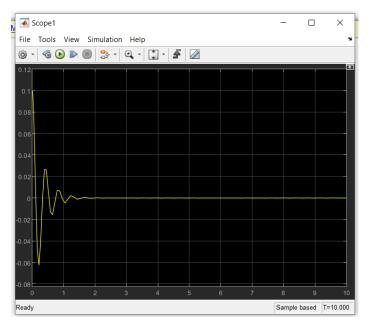


Fig 4: Speed over time