Курсовая

— Илья

Ксюша

— Саша

$$\chi(\lambda) = (-1)(\lambda^3 + \lambda^2(\frac{1 + K\tau_{z_1}\tau_{z_2}}{\tau_p}) + \lambda K(\frac{\tau_{z_1} + \tau_{z_2}}{\tau_p}) + \frac{K}{\tau_p})$$

$$\dot{x}_1 = \sin \theta_e$$

$$\dot{x}_2 = -\frac{1}{\tau_p} x_2 + \frac{(\tau_{z1} - \tau_p)(\tau_p - \tau_{z2})}{\tau_p^2} \sin \theta_e$$

$$\dot{\theta}_e = \omega_e^{free} - K(x_1 + x_2 + \frac{\tau_{z1}\tau_{z2}}{\tau_p} \sin \theta_e)$$

$$\begin{cases} \tau_{z_1} + \tau_{z_2} < \tau_p \\ \frac{\tau_p - (\tau_{z_1} + \tau_{z_2})}{(\tau_{z_1} + \tau_{z_2})\tau_{z_1}\tau_{z_2}} = K \end{cases}$$

grad:
$$/ KK_1 - w e^{Gre}$$
 $V = - K Sin X_2 - w \frac{\overline{L_1 L_2}}{\overline{L_p}} sin$
 $\left(- \frac{l}{\overline{L_p}} \times 2 + \frac{(\overline{L_1 - \overline{L_p}})(\overline{L_p} - \overline{L_n})}{\overline{L_p}} sin \Theta \right) A$
 $V = - K Sin X_2 - w \frac{\overline{L_1 L_2}}{\overline{L_p}} sin \Theta$
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X Z, Zz Sin A + K / T, -T,) (Z, -Z) 0:3A

$$Z_{p^{2}}$$

$$Z_{p$$

6 nove 1 = 0 -

Head ogen

grad: (ux, -w sin)

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T. K 2 - 0 = 0 (X)

=> ~3 ~ (pv)