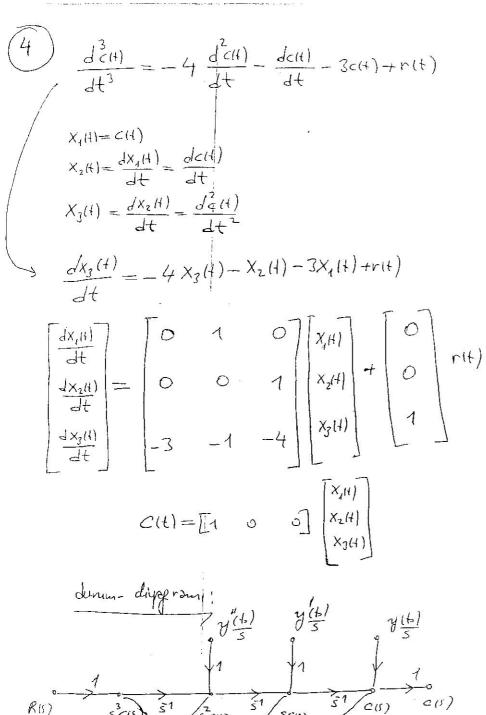


Otometik - Konduel Vize - Gözümleri t-domerade Gözümler: 5- domeninole (11 Nigh 2005) = Yr15) - Yx15) (A Grubu)  $e(t) = y_r(t) - y_x(t)$  , V(t) = Ke(t)Eus = Y, 15) - Y, 15)  $v(t) = R\hat{i}(t) + L \frac{dit}{dt}$ ,  $F(t) = 0.1 \times \hat{i}(t)$ VISI=KEIS)  $I(t) = \frac{V(t)}{5i + R}$  $F(t) = M \frac{dy(t)}{dt^2} + B \frac{dy(t)}{dt} + Ky(t) + Fy(t)$  $F(1) = (MS^{2} + 85 + K) + F_{7}(1) \Rightarrow Y_{1}(1) = \frac{F_{1}(1) - F_{7}(1)}{MS^{2} + 85 + K}$ Fin= Olx Isi b) Kontral-Blok Diggrami;  $y_r \xrightarrow{f} 0 \rightarrow K \xrightarrow{V} 1 \xrightarrow{I} 0.1 \xrightarrow{I}$ (z) a)  $L_1 = -G_2G_3H_2$  $\frac{H_1 \Delta_1}{1 - L_2 - L_2} = \frac{G_1 G_2 G_3 G_4}{1 + G_2 G_3 H_2 - G_3 G_4 H_4 + G_4 G_2 G_3 G_4 H_3}$ L,=G3G4H1 Lz=- G, G2 G, G, H,  $\Rightarrow G_1 \Rightarrow G_2 \Rightarrow G_1 = G_1G_2 R$   $\Rightarrow G_1 = G_1G_2 R$ M= G,G2 G,G4 11) R=0 in  $C_2 \Rightarrow 0 \rightarrow G_2$   $\Rightarrow C_2 = \frac{-G_2}{1-G_1G_2}$   $\forall$ .  $C = C_1 + C_2 \Rightarrow C = \frac{G_1 G_2}{1 - G_1 G_2 H} R - \frac{G_2}{1 - G_1 G_2 H} Y.$ G(1) egrisinden, lun G(1) = 3 son-deger ; 30mm ratiti > 0.632 \* Endeger = 0.632 \* 3 = 1,896 dejerine alosmon rain goven sweeter. grafikter Kyzna  $\Rightarrow k = \frac{500 - degir}{gins} = \frac{3}{4} / G_{1(1)} = \frac{\frac{3}{4}}{10s + 1}$  $G_2(0) = \frac{W_n}{S_{+27}^2 W_n^5 + W_n^2} = \frac{1}{S_{+}^2 \frac{1}{4} \frac{1}$ W/=W/1-72 = 0,709. 0/0 Mp= e - 100 = e - 100 = e - 100 = (-171) tp= \frac{\pi}{w\_1} = \frac{\pi}{0,709} = 4,4251.  $t_{s} = \frac{4}{\sigma} = \frac{4}{7m} = \frac{2}{5,673} = \frac{5}{5,673} = \frac{5}{5}$ tr = 7-18 - 7-0,7883 \_3,31915n.



\$1 (cs) (cs)

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