

Estrella*

Modele de Éwarines Integro-Diferenciales int)=[ve(t)- 2d(intt)-in(t)) + Rin(t)] = 2R litt): [Ld[int)-int)] + Rint)-1 [int)di]] Vs(t)=Piz(t)+ () iz(t)dt Transformada de Laplace Vels)=Riss)+25 (665)-665)+p(665)-665) = 2 Ring) + 45 & (5) - 25 in(5) - 12 (26) = (212+LS) (LS) - (LS+12) (LS) (0) (0) LS (i.us)-in(s) + 2 (i.us)-i, (s) = 22 i,us) + i,us LS ((5) - LS (26) + Ri, (1) - Riz(5) = 2 Pla(5) + 12(5) LS i. (5) + Ri(6) = LS ir(s) + Ri(6) + 2Rir(s) + ir(s) (LS+R) i.(S) = (LS+3R+ts) izu) i(s) = C152+3(RS+1 in(s) @ Vs(s) = (p+ ts) in(s) = (ns+) l2(s)

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0

	0
Procedim Cento algubraico	
Sand to easily states of action of the state	
Vers) = (24 + LS) ((152+3(ns+1)) liss) - (15+n) liss)	
Ve(s) = \(\left(2R + LS \right) \left(\left(LS^2 + 3 \left(RS + 1 \right) \) - \(\left(LS + R \right) \) \(
-[(22+45)((152+3(p5+1)-15(15+0)(15+0))]in(s)	
-20152+6(123+22+1125+3(1151415-61252-01150-01150-01150-01150-01150-01150-01150-01150-01150	1.00
CS(LS+n)	ne co
Ve(s)=3(122+(5(22+1)5+22 (50)	e co
(5 (LS + 12)	CA,AT
Vs(5) - (5) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Vecs) 3000 + (5000+1) + + 10 1000	
(300) (1)	
Vels) - [(ns+1][Ls+n] - Clns2+ (cn2+L)s+n Vels) - 301ns2+ [5(n2+L]s+2n 301ns2+[5(n2+L]s+2n	
Vels) 301252+ (502+1)5+22 301252+[502+1]5+22	
	65
	6.0

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Error en estado estacionano (escalón unitario) e(s) = lim s Ve(s) [1- Vs(s)] - lim s. - [- CLRS2+ (CR2+L)s+R 5->0 5 [3CLRS2+CSCR2+L)s+2R 2R = 1 V trans ton's Estabilidad en luza abierto · Calcular las raices del denominador (Polos) 3CLR(2+(5CR2+L)S+2R=0 C=340puF 22=-7.843137257x10-2 Con bace a las raices, se concluye que el sistema es estable con una respuesta subreamortiguada