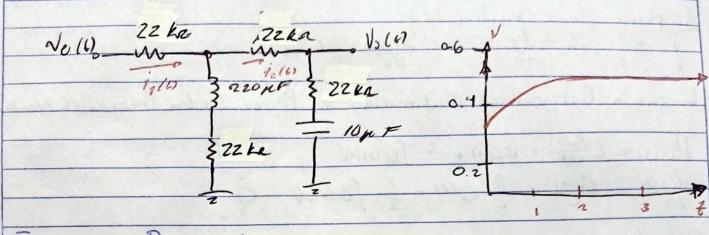
Practices 1

23/Sep/2025



Euciones Principales

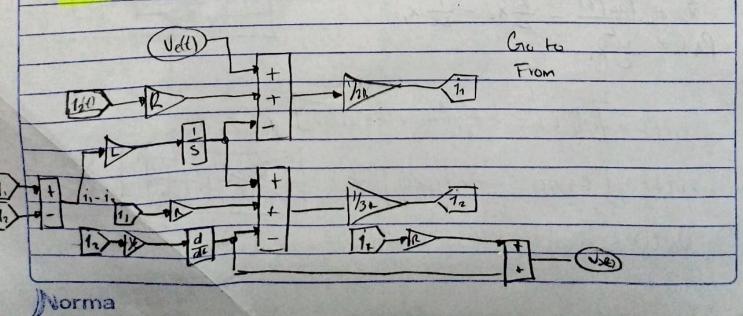
Velb) = h i, ω) + L dti,ω-12ω) + h [1,ω-12ω] L d[1,ω-12ωη + R [1,ω-12ω] = Rizω + Rizω + t] 12 cm dt

Vol6) = Riz(0) + & Sizundb

Modelo de ecuciones integno-difrenciales.

 $V_{e}(t) = 2R_{1}(t) - R_{1}(t) + L \frac{dL_{1}(t) - i_{2}(t)}{dt}$ $\frac{1_{1}(t)}{2} = V_{e}(t) - L \frac{dL_{1}(t) - i_{2}(t)}{dt} + R_{12}(t) \frac{1}{2R}$ $L \frac{dE_{1}(t) - I_{1}(t)}{dt} + R_{1}(t) - R_{12}(t) = 2R_{12}(t) + \frac{1}{C}\int_{C} dt dt$ $\frac{1_{2}(t)}{2} = \left[L \frac{dL_{1}(t) - I_{2}(t)}{dt}\right] + R_{1}(t) - \frac{1}{C}\int_{C} dt c dt \int_{C} dt$

Usus = Rizles + & Sizlesde



Note: INo terminos negartas!

3.3.	7 1/2	10.
Transformada de Laplace	Va(s)/Ve(s) = ? 260	/ ?, L2(S)
Vecs) = 121.(5) + LS [1.(5)-12(5)] +	R[1(5)-12(5)]	13 33 34
Ve(s) = R L.(5) + LS LL.(5)-12(5)] = LS[L1(5)-12(5)] + R [L1(5)-12(5)]	- R 12(3) + R 12(5)	+ = (5)
LSL1(5) - 12(5)] + K L1(5) - 12(5)]	The second La	TE-1 10
VS(S) = R12(S) + 30	SALES BALL	3193 - mb
Procedimiento Algebraico.	110(5)	0.0003
VC() = (R+Ls+R) 1.(s) - LLS+R	(s)	1 1 1 1 1 1
Maccol = (18400) 11(S) - (2842).	12 (S)	
10 1 (5) -1 5 12 (3) L BLIGH - KLZCS) 2	ZKIZUSI CS	a K
151,(s) + R1,(s) = 3R12(s) + LS120	(3) + cs	
1	(1)	41 1000
1 10 - 2009 10182 11 126	S) - CLO + OCKS	1201
CS (LS FR)	c csusta	1-0-6-
V3(5) = CRS +1 12(5)	-0 -0 -	0 -0
-0 -0 -0 -0 -0 -0 -0 -0 -0 -0 -0 -0 -0 -	60.6	200
Velije (28+2R)(CLS2+3CRS+1) 1	2 (1) - (5+6) 121	-3)
(1/8+16)	LULSILEIL	
Vecs) 2 (LS+2R)(CLS2+3(RS+1) _	OS (LSFIE) CSFIE)	12(3)
CS (LS FR)	CS(LS+R)	14 14 14 15
	5	2 parto an
Vecs)= Ct253+ 3CLR5+ LS+26+15	+ 16CR'S + 21 - CS	L + JELS KZEK
	125 ST - 1 (-) ST 15	2 (2) 2
Vew = 3CLRs2 + 5CR25 + LS + 2R	12(3)	*
(s(Ls+R)	4 / 10 / 10 / 10 / 10 / 10 / 10 / 10 / 1	and a second
Funcion de Transferencia.	-1135	DES (5) 3
CRS+1 Jaco	1	0211
Vs(s) es		CRLS2+CR2.
Ve(s) 3CLBS2+5CR25+LS+2R	10(5) //CCRSH1)((LS+12)2 + R
CS(LS+R)		V\$ 1(4) 5
Vs(s) CRLS + (CA2+2) S + R		13123636
Veci) 3CLR82+(SCR2+L)S+2R	The state of the s	
OCHO +COULTETS+ZK		- Manual

Estabilidad en lazo abierto

2

· Calcular los polos de la fención de transferencia	
Vs (5) , CLRS2+ (CR2+L) S+R	4
Vecs) 3CLRS2+65CR2+L)s+2R	
En Lythan Phyton?	24
den = [3*C+L*R, 5*C* R**2 + L, 2*R]	M
L = np. roots (den) - tprint: Las raices sen {Lto]} y {Lti]}	
Mainkra	
λ, = 1666666666636363	23
λ2=-1.18 CALLES CONTRACTOR CONTRACTOR	ارد
the state of the same of the s	
El Sistema presenta una respuesta estable y Sobreamortig	vade
· LW	W
$\int_{C} C(1) = \frac{1}{2}V$	
1 (26 + 2A) (A2 + A3)	134
A WEST OF THE PARTY OF THE PART	
Carlo	
transitoria Estado estacionario t(s)	
Ervor en estado estacionario	
The state of the s	
e(s) = lim sve(s) [1-\frac{\varphi(s)}{\verts)}	
CC 5 50 L Vets)	
Constitution of the contract o	NAME OF THE OWNER OWNER OF THE OWNER
$e(s) = \lim_{s \to 0} s \cdot \frac{1}{s} \left[1 - \frac{(LRS^2 + (CR^2 + L)s + R)}{3(LRS^2 + (5(R^2 + L)s + 2R))} \right]$	
5+0 5 [3(LRS2+(5(R2+L)5+2R)	
c(s) = R	
1 20	1000

セ(+)=シン