



 $L_1(S) = \left(\frac{3CR5 + CL5^2 + 1}{CS(L5 + R)}\right) + \frac{2(S)}{CS(L5 + R)} \rightarrow \frac{CLS^2 + 3CRS + 1}{CS(L5 + R)} + \frac{1}{2}(S)$

Vels1=(LS+2R)(CLS2+3CRS+1) 12-(LS+R)[2(S) L252 + 2LRS+R2

=[L5+2R](CL52+3CR5+1)-(5(L5+R)(L5+R)] 12(5) C5(L5+R)

CL253+3LCS2R+L5+2R6L52+6CR25+2R

- CL253 - 2CLR52 - CR25 +5CR25

3CLR52+L5+5CR25+2R

V=(5) = 3CLRS2+ (5CR2+L)S+2R CS(LS+R)

6

Vsls) = 3CLRS2+(SCR2+L)S+2R 12(S)

(5(LS+R)

(CRS+1)(LS+R) = CLRS2 + CR2S+LS+R

V=(5) _ CLR52+(CR2+L)5+R V=(5) 3 CLR52+(5CR2+L)5+2R

R=4.9K L=300E-6 C=33E-6

Estabilitad de lazo abierto 211. 4 Milliano Maria de la companya d

Calcular los polos de la Función de transferencia

Vo(s) - CLRS+(CR2+LIS"+R Velol

Error estacionario estacionario ecs) = 1 m 5 vecs) [1 - vecs)

22.

e(+)= 1-V

al. Manage Manager Manager Consterna preventa una o obreamortiguada

e.tado estacionario

V. US) = 3 CLRS + 1000 R2+115 + 2R. (sralle)

301.85°+ (SCR2+1)5+20 11.191

At C.J. 2690 4 509 10 + 19+20 11+20.

1

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