

$R(s) + \sum_{i=1}^{n} E(s) = \sum_{i=1}^{n} \sum_$	Clay Y(s), Horder Do on 1
Clead (s)	-G(S) GOLOTOXIĜ AGĜOĜĀM
5-6 V = (8)	A
Ç re	50
Els) = aracina + Aracina - resigno	
R(s) 1+ C _{lead} (s)G(s)	979 47 44
) = lims Els) = lim s. 1/s
S +- 00	5-0 5-0 1+Clead(s)G(s)
	= 1 .
	1 + Cread (0) G(0)
	L KE
Lag Controllers	19 1 19/2 19/2
Lay Commencia	2- 4-
Clag(s) = "S+Zlag" 321 - 00 - 12 0x	20 1+1-50 1 + (2) 30
S+ Plag Zing Pla	95 (14-2) 2
Clag (0) = Zlag >1	
Plag	1850 Sippe = sim (Port)
n.x. G(s) = 5 (1000) Mas = +2±j2,	Clead (S) = 20 (S+2)
s(s+1)) ma daid	4 nia 51(8 +) nia : 0 2
1 ^ω τὰ [ns	cR 151
Ky = lim 5 Cread (5) G(5) = 20.2 = 5	es= 1 = 0.9 nia gonia = 5
Για να μικρύνω το ess : ess < 0.01 =>	K0, > 100 A) 200 - (a) ais (A) ais
$V_{\mathbf{U}}' = V_{\mathbf{U}} \cdot \mathbf{Z} \log \mathbf{U}$	⇒ Ziag = 100 = 20
	Riag 5
(f. d) 200 + 1	
U > U	lofty goesten ton both I ma,
	Car your
T.C.	19 VO (66) 58 - (88) poly 19 p
	[2] har]
	1-0+ dry (+2) 2- 1

	했다. [사이지 사람이 되어 그 집에 그 이 이 이 이 이 이 이 이 아이를 되게 됐다면 하는 것이 되었다면 좀 먹었다.]
0	성 내 ^ [11] [11] [12] [13] [13] [14] [14] [15] [15] [16] [16] [16] [16] [16] [16] [17] [2] [2] [2] [2]
2	V2 VC
2	Clead (S) = K (S+Z) = $\frac{K_{\overline{Z}}}{p} \left(\frac{S}{z} + 1 \right) = K_{lead} \left(\Omega_{lead} \tau_{lead} S + 1 \right)$
	S+P 15 +1 Tread S+1
3	
₹—	Tread = $\frac{1}{P}$, a lead = $\frac{1}{P}$ > 1
3	Z Tread Z
3	w_n^2 w_n^2
3	
3	1 (0) (0)
	$1 + \frac{\omega_n^2}{8(5+27\omega_n)}$
(a)	$H(z) = \frac{\omega_n^2}{\omega_n^2}$
0	s(s+2]wn)
	1, 1, 1, 2, 1, 4, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
3	$\frac{ H(j\omega) ^2 = 1 \implies \omega_n^4}{ H(j\omega) ^2 = 1 \implies \omega_n^4 + 4 \int_0^2 \omega_n^2 \omega_g^2 - \omega_n^4 = 0}$ $= 16 \int_0^4 \omega_n^4 + 4 \omega_n^4 = 4 \omega_n^4 (4 \int_0^4 + 1)$
3	$w^{2}(w^{2}+4\int^{2}w^{2}) \qquad \Delta = 16\int^{4}w^{4}+4w^{4}=4w^{4}(4\int^{4}+1)$
3	$w_{gc}^2 = -4J^2w_n^2 + 2w_n^2\sqrt{1+4J^4} \implies w_{gc} = w_n\sqrt{1+4J^4-2J^2}$
3	Wac - 41 wh 12 wh 12 3 3 age wh 112 3
3	
3	$\frac{\text{arg H(jwgc)} = -90^{\circ} - \tan^{-1}\left(\frac{w_{3c}}{2 \text{Jwn}}\right)}{2 \text{Jwn}}$
3	$\left(\frac{2 \int \omega_n}{2 \int \omega_n}\right)$
-	
3	$\phi_{nep} = 180^{\circ} + \text{arg H (jwgc)} = 90^{\circ} - \tan^{-1} \left(\frac{1}{2J} \sqrt{1+4J^{4'}-2J^{2'}} \right)$
3	(2]
3	$M_{\rm p} = e^{-nJ\sqrt{1-J^2}}$ to $J \in nnp \in \tilde{a}[\epsilon_1 \ 10 \ M_{\rm p}]$
-	Mp= e To J EnnpEa(E) TO MP
-3	
3	Clead (S) = Klead alead Tlead + 1
	Tlead +1
- 10	
	arg Clead (jw) = tan-1 (ατω) - tan-1 (τω) = 1/4 1/7
-	
-	
-3	$f(x) = \frac{x}{1 + \alpha x^{2}}, f'(x) = \frac{1 + \alpha x^{2} - 2\alpha x^{2}}{(1 + \alpha x^{2})^{2}} = \frac{1 - \alpha x^{2}}{(1 + \alpha x^{2})^{2}}, f(x) = \frac{1 + \alpha x^{2} - 2\alpha x^{2}}{(1 + \alpha x^{2})^{2}} = \frac{1 - \alpha x^{2}}{\sqrt{\alpha}}$
<u> </u>	$\frac{\int (x) = x}{1 + \alpha x^2}, \frac{\int (x) = \frac{1 + \alpha x^2 - x \alpha x}{1 + \alpha x^2} = \frac{1 - \alpha x^2}{1 - \alpha x^2}, \frac{1}{\sqrt{\alpha}}$
W	144%
-3	$\omega_{\mu}T = 1 = \omega_{\mu} = 1$
- 3	√a T√α
	, α-1
	$ang C_{lead(jw)} = tan^{-1} \left(\frac{\alpha^{-1}}{\sqrt{\alpha}} \right) = tan^{-1} \left(\frac{\alpha - 1}{\alpha - 1} \right)$
- 3	1+ a. 1/4 / 2/0 /
-1 - 1 - 1	
-	$1 = 1 + \tan^2 \phi = \cos \phi = \frac{1}{\sin \phi_m} = \frac{\alpha - 1}{\sin \phi_m} = \frac{\alpha - 1}{\sin$
	$\cos^2\phi$ $\sqrt{1+\tan^2\phi}$ $\alpha+1$
=	It here en enceopos pasons em $w=1$ = $\alpha = \frac{1+\sin\phi m}{1-\sin\phi}$
++	(# μ égietu euvelepopa paeus etnu $w=\frac{1}{\tau\sqrt{a}}$ = $1/\alpha = \frac{1+\sin\phi_{tot}}{1-\sin\phi_{tot}}$
-	1 od show ham 1

Cread (jwm) = 1+0°7°w	$\frac{1}{a} = \int 1 + \alpha' \frac{1}{\alpha} = \int 1 + \alpha = \sqrt{\alpha}$
L+ t2W	1+4 1+4
	Section 2
	The Table of the Control of the Cont
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	Less or Wingros Land Tall See
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	Lin hosti
- W risk	and Constitut = tan Times - tour tour) =
on (2-10)	Frot = LIVEN Trot = V Tast = V Tast
\\ 'a') n + 1	
Variation of the same of the s	1-10x) = X = 10x2-20x1 = 1-0
	1+0x2 (1+0x1) (1+0x2)2
	1 Take
	GF
hoire in his or a school of	1 = \$200 to \$700 + 1 = 1