FORMUL SFORMUL	KAGIOI Rameizan AKTAS
Low Frequency High Frequency Common	Collector Common Emilton Common Base
S WH	
	REIRL A: - ReliRL A: ReliRL  Ce+REIRL Ce+RE
I dile	11 (B=) (re+RE1/RL) R:= RB11 (B+) (re+RE) RI= RE1/re
(1-A).C, (1-4).C (0= 17) R.= RE.	11 (re + Rs//RB)   Ro = Rc//ro
(MOS) Sm= (28. Io) ( = VI	BF
Common	Drawn Common Source Common Gode
1/2 -1 -WH	
wiensz	1 + gm(Rs//RL) A = -gm(Ro//RL)  1 + gm(Rs//RL) A = gm.(Ro//RL)  A = gm.(Ro//RL)
	, Ro=Rss Ri=Re, Ro=Rollo Ri=Rss
	p(vc)
FT = Sm 2m (Cob+Cbe), 2m (Colg+Cgs) - THI	EVENIN RTH= RBI // RB2 , VTH= VOO RB2
Mos	1V65-V1 = 1V051 1V65-V1) 1V051
Fos = 1 , Fps = 1 27. (25/11/6) (5) IO	SATURATION LINEAR
	$= \frac{\beta}{2} \cdot (V_{65} - V_7)^2  [D = \frac{\beta}{2} \left( 2(V_{65} - V_7) \cdot V_{05} - V_{05}^2 \right)$
FEEDBACK	$A_{\xi} = \frac{A_0}{1 - \beta_0 A_0} \cdot \frac{(1 - \beta_0 A_0) w_k}{jw_{\xi} + (1 - \beta_0 A_0) \cdot w_k} + \frac{1}{1 - \beta_0 A_0} \cdot \frac{1}{jw_{\xi}} + \frac$
anar V I	1-BoAo jw+ (1-BoAo).wk Frequency
T V I	$W'_{k} = (1-\beta_{0}A_{0}), W_{k} \rightarrow K(S)$
1 Ct = C(1-Ba) Ct = C(1-Ba	
(of= (1- (1- Rg). 10 ) of = (1- Rg)	
I (: (: (: (-BA)) (: (: (1-BA)	5-1
	BATC AF = A LG = BA
PULSE RESPONSE	.BA) . G AF = A LG = B.A
Rising time + tr= 0,35 STABILITY	
	P.M = Q = 180° - (Arcty to + Arcty to + Arcty fo)
Tilt => 8= td , td= T/2   G.M.CO P.M.>O	
	3,
RC = C, (r;+Rg), C2(ro+Rx) BAIL1	52+25woS+wo2, wo2=(1-BA)Sk1.5k2
CO. LOCALS ACTION !	* \( \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
RA= 1+RB RB= 1:1/RB = 14 ft=f:	Fρ = 1-2ξ (peak value) = 20 log 1/2 ξ√1-ξ²
	FO 11-22
Le= RA.RB.Ci No F.B	F-30R = Fo 1-282+ (1-282)2+1
	S1,2=-{wo±wo {2-1, S1=1052 > E=13
3+ as +b , [= 1 > (a)2=b	
of Mo May	NO PEAK
West = Wo	1-βAo ( (Fk+Fk) / [F3(F1+F2)+F3F2] 2.F1.F3.F3(F1+F2+F2)
	2.Fu.Ft2 2.F1.F2.F3 (F1+F2+F3)

## Kaynak: ramazanaktas.blogspot.com

