$$R_{R} = \frac{1}{R_{1}} R_{1} R_{2} = \frac{1}{R_{1}} R_{1} R_{2} = \frac{1}{R_{1}} R_{2} = \frac{1}{R_{2}} R_{1} R_{2} = \frac{1}{R_{2}} R_{2}$$

$$= -\frac{1000}{(162.41 + 1000)}(100)(\frac{400}{1000 + 400}) = -40.75$$

$$i_{c} = \beta_{1}b$$

$$v_{b}$$

$$R_{c} = R_{c}$$

$$R_{c} = R_{c}$$

$$R_{1} = \frac{\beta (V_{08} - V_{0E})}{R_{1} + R_{1}} = \frac{(100)(10 - 3)}{(600)} = \frac{16.6 (mA)}{R_{1} + R_{2}} = \frac{(108)(100)}{(106)} = \frac{16.6 (mA)}{R_{1} + R_{2}} = \frac{(108)(100)}{(106)} = \frac{16.6 (mA)}{R_{1} + R_{2}} = \frac{(108)(100)}{(106)} = \frac{16.6 (mA)}{R_{1} + R_{2}} = \frac{(100)(120)}{(106)} = \frac{(100)(120)}{(100)} =$$

$$R_{1} = \frac{N \operatorname{cc}(R_{6})}{V_{6}} = \frac{(30)(77.16)}{3.86} = 599.68 [A] R_{2} = \frac{R_{E}}{1 - \frac{V_{6}e}{V_{6}e}} = \frac{77.1675}{1 - \frac{3.86}{30}} = 88.86 [A]$$

E PIL

Formulario | Murrie ta Villegos Alfanso

$$I_{D} = I_{3} \left(e^{\frac{V_{D}}{V_{e}}} - I \right)$$

$$V_{e} = \frac{KT}{q} \left[K = 1.38 \times 10^{-23} \left[\frac{J}{ke} \right] \right]$$

$$|V_{o}| \log T_{eimeo} \left[A = 1.609 \times 10^{-19} \left[C \right] \right]$$

1 Moespejodo

$$V_{D} = V_{T} \ln \left(\frac{T_{D}}{T_{S}} + 1 \right)$$
 $V_{T} = Q V_{T} = \left(\frac{Q}{26} \times 10^{-3} \right)$

1 Iteraciones Diodo

$$\frac{V_{0t}}{V_{0t}} = V_{\tau} \ln \left(\frac{V_{F} - V_{0it}}{\pi_{5}R} + 1 \right)$$

$$\frac{V_{0t}}{R} = \frac{V_{F} - V_{0}}{R}$$

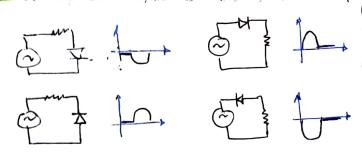
Mersiones Complejas

$$V_{F} = I_{O}R + V_{O_{ON}}$$

$$I_{O} = \frac{V_{F} - V_{O_{ON}}}{R}$$

$$U_{F} = I_{O}R + V_{O_{ON}}$$

Migraphen Againstudorss,



11 Superposición / Diodo como Resistencia IN I TO = V = - VOON = - MAY | RAC = V- Ida

🥒 Otro Fuente

$$V_{F} = I.R_{1} + IR_{2} + VA + V_{0}$$

$$V_{F} = I.R_{1} + IR_{2} + VA + V_{0}$$

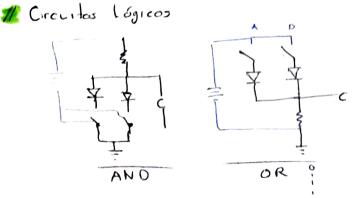
$$V_{O} = I.R_{2} + VA + V_{0}$$

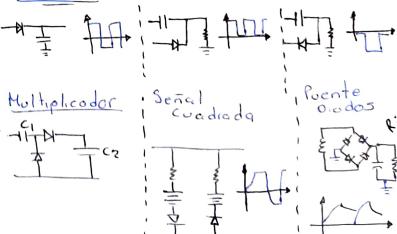
$$V_{O} = I.R_{2} + VA + V_{0}$$

:. $V_0 = \left(\frac{V_f - V_A - V_O}{R_1 + R_2}\right) R_1 + V_A + V_D$; $V_0 = V_A + V_D$

1 W = 211 fC Circuitos Sujetadores

Ju.





1? - Vo = (VTP.) (50) Circuito (50 + 109) tlearnag Rectificador C = Vinmax (Vin max - Vimin) Rf Version Linealizada Viamin (Media Undo) Con Tap De T Vin min = Vinmare & | 6 = RC = Ct. Tiempo (Viamar - Vinmin)(2)(R)(F) Disminu + Aumen + Se hace size capo + Freccen + con Diado Vrizo = Vin max - Vin min Rener $R_1 = V_F - V_Z$ $R_1 = V_F - V_Z$ $R_2 = V_F - V_Z$ $R_3 = V_F - V_Z$ $R_4 = V_5 - V_Z$ $R_4 = V_5 - V_Z$ $R_5 = V_5 - V_Z$ $R_6 = V_6 - V_2$ $R_6 = V_6 - V_2$ $R_6 = V_6 - V_7$ $R_6 = V_7 - V_7$ $R_7 = V_7$ $R_$: Izmax = Icmin (V2 - VFmin) + Icmax (VFmax - V2) | R = VFmax - V2 VFmin - (.4) Vz - (.1) VFmax # Fuente Alimentación Vimin = Vin + (Vin x %) V promax = Vfmax = 139 36 218 30 117 ±15%

Temp? = 8 + (8x.2) = = 9,6 (V,rme) 350-450 $-5 V_{\text{inanjuico}} = \frac{q.6}{\overline{12}} = 6.79$ //Tap CentralIcmn - 35/ Izmax = (,350)(8-4,6)+(,4-11)(44-8) = Icma, = .45 9,6-(,9)(8)-(,1/1294) Vpicomin = 6,79 x 2=13,88 Vimax = m + (m)= 11 Rela, Trans = 1.03[A] - U2= Vaut = 134,45 [Vims] n= VFmin = 94.45 = 7.37 $R_1 = \frac{12,49-8}{1,53+(350 \times 10^{-3})} = 265[n]$ Vol = (1.75) (26×10-1) In (3-40; 41) = ,353 1/ Iterociones I3 = 500 [nA] 6 = (NEWCX-NS)(II) = (15.40-8)(1.55+380+0 Vo. = (...) (n (3 - .35) = .331 1 = 1,75 VF = 8 R=2001 [A] 810. = 188. - 8 = OI b) AC RAC = VT = 26 × 10 3 = 1,4254 [1] E 201 282:60 Vo=Vc VO = QVTIO(VF-VO +1) = (.75) (66×10-5) In (/2000-4(750) +1) 1 Capaciter Jo = VF - VO3 - 9- 119 - .0182[A] Is = 760 [n] Vr; =1500 nut[n] R = 2 50 12 Great => Serve = m serve + [Dodo] C= ppf VF, = 5 V

Formulario

$$V_{RB} = \frac{V_{CC}R_{Z}}{R_{c}+R_{Z}} \left| R_{G} = \frac{R_{c}R_{Z}}{R_{c}+R_{Z}} \right| V_{CC} = \beta \left(\frac{V_{RB}-V_{RC}}{R_{R}+R_{RC}} \right)$$

$$||R_{Rectu}||R_{AC} = (R_{c}||R_{c}) = \frac{R_{c}R_{c}}{R_{c}+R_{c}} \quad V_{CC} = V_{CC} - I_{CQ} \left(R_{c}+R_{E} \right)$$

$$||V_{CC}|| = (R_{AC})(I_{CQ}) + V_{CEQ} \quad I_{CQ} = V_{CC}$$

$$||V_{CC}|| = (R_{AC})(I_{CQ}) + V_{CEQ} \quad I_{CQ} = V_{CC}$$

$$||V_{CC}|| = (R_{AC})(I_{CQ}) + V_{CEQ} \quad I_{CQ} = V_{CC}$$

$$||R_{C}|| = \frac{R_{c}}{R_{c}+R_{c}} + I_{CQ} \quad I_{CQ} = V_{CC}$$

$$||R_{c}|| = \frac{R_{c}}{R_{c}+R_{c}} + I_{CQ} \quad I_{CQ} = V_{CC}$$

$$||R_{c}|| = \frac{R_{c}}{R_{c}+R_{c}} + I_{CQ} \quad I_{CQ} = V_{CC}$$

$$||R_{c}|| = \frac{R_{c}}{R_{c}+R_{c}} + I_{CQ} \quad I_{CQ} = V_{CC}$$

$$||R_{c}|| = \frac{R_{c}}{R_{c}+R_{c}} + I_{CQ} = V_{CC}$$

$$||R_{c}|| = \frac{R_{c}}{$$

11 En AC

Ica = B (VBB-VBE)

RE THE ENO ANN RE TRE

10 = 60 CC