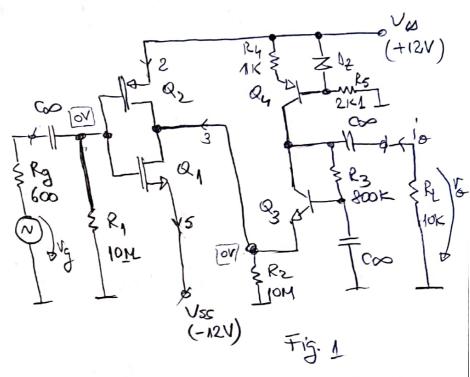
Sellinor CEF

## thuplificotoors de senued une-2.

Se do circuitel du fig. aloheroto pentue Cou re amose:  $Q_1 > K_N = 0,1 MA/V2$   $V_T = 2V$ Q2 Kp=0,04,WA/V2 Vr=-20 W314 / NBE/=0,6V BE= Bo= 400, Dz } Nz = 3,6V Zz,umi = 1mA Rz = 0



Colouble de c.a. u vor ruslisó pti. semmed runc ni joos freevents.

So a coleulise;

Pp. Q1,2 m noturatie, Q3,4 m RAN 21; De ille stabilitare.

Roulte Is = \( \( \lambda \text{V6S} - \varV\_T \)^2 \\ \cappa = \( \barV\_C \) \( \varV\_C = \barV\_C \) \\ \( \lambda = \bar36 \text{V} \).

Anso V2 = 3,6V =0 IC4 = V2 - VEBY = 3WA

IZ= VAD-VZ = (12-3,6)V = 4MA.

Scorece BM => Ic3 = IES = IC4 = 3 WA.

Decorece when hi de poort la touristoorele Q191, Q2 met rero => IRI=0. => VRI=R1. IRI=0=> potentialel partiber Q, n'Q2

$$Q_{1} \begin{cases} V_{GS1} = 12V > V_{T} = 2U \\ I_{CM} = Sun A \end{cases} \Rightarrow not )$$

$$Q_3 \left\{ \begin{array}{l} I_{C3} = 3 \text{ MA} \\ V_{SE3} = 0.6 \text{ V} \end{array} \right\} = \text{ DAN}.$$

$$V_{CE3} = 6.6 \text{ V} > \text{V}_{EE}$$

Sur = 
$$K_4 (V_{65} - V_7) = 1 K \Sigma^{-1}$$
  
Sur =  $K_7 (V_{65} - V_7) = 9,4 K \Sigma^{-1}$ .

Schumo oh c. a. 
$$\frac{1}{3} + \frac{1}{3} + \frac{1}{3}$$

3) 
$$R_1 = \frac{J_1}{J_1} = R_1 = 10 \text{ M.S.}$$

Vi=0=> Ugs=0=> idi+id=0=> ies=0=> /c3=0.

$$=D. \qquad \frac{Q_3}{163=0} = D \qquad R_0 = R_3 = 800 \text{ KD}$$

$$= \frac{R_3}{163=0} = \frac{R_3}{$$

Scanned with CamScanner

$$Avg = \frac{\sigma_0}{vg} = \frac{\sigma_0}{v_i} \cdot \frac{\sigma_0'}{vg} = Av - \frac{R_i'}{R_i + R_g} = Av = -14.$$

$$\frac{1}{\sqrt{2}} \left( \frac{R_i}{R_i} \right) = \frac{1}{\sqrt{2}} \left( \frac{R_i}{R_i + R_g} \right) = \frac{1}{\sqrt{2}} \left($$

$$\Gamma_i = V_g$$
.  $\frac{R_i'}{R_i + R_g} = 2 \frac{V_i'}{V_g} = \frac{R_i'}{R_i' + R_g}$ 

$$A_{y} = \frac{i_{0}}{v_{i}} = \frac{i_{0}}{v_{0}} \cdot \frac{v_{0}}{v_{i}} = \left| -\frac{1}{R} \cdot A_{v} \right| = \frac{14}{10} \, \text{kg}^{-1} = 1,4 \, \text{kg}^{-1}$$