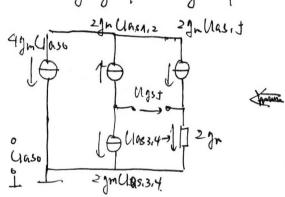


专机件产之. ① 申给在十倍号槽查走库中流在函数(fin = √2β InA) ⑤差动对亡两个输入管为控制层中流在两个支格心流动节之大3简仅的方法。 → 可加控侧Is 控例作金, Av= Vont/Vin c多水翘可吸从O(In>0)→ 中恐冲决定证本及企 一) JM用 Vonti-V1-V2 未 Vouti=V3-V1 77和rre金为正和見なはら,文店再加加即可.

对于 Vgl, 1= Ua, gl =-1. 可用于效电路的十经证、伊加为一人[上(六+ 主)-1, 不更对].

V+rsotgingsspanhingsteferonce.



等效电路, 华达成在于U4st, 是门旗(从图中有)河加亚特电流社根据电池四路(学数国军方科) 而不必首等效)

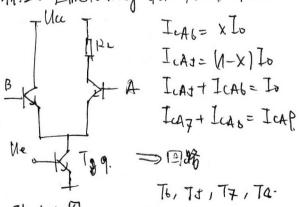
由SKript,国2件效

aleichtektanterdrickung bein Transkonduktanzrerstärken.

$$\begin{aligned} \text{Ne}^{\dagger} &= \text{Ng}(+\frac{\text{Ud}}{2}\text{iff}) \implies \text{Id}_{A} = 9\text{T,g}(-\text{Ug}) + 9\text{T} = \frac{\text{Ud}}{2}\text{iff} \\ \text{Ne}^{\dagger} &= \text{Ng}(-\frac{\text{Ud}}{2}\text{iff}) \implies \text{Id}_{A} = 9\text{T,g}(-\text{Ug}) + 9\text{T} = \frac{\text{Ud}}{2}\text{iff} \\ \text{In}^{\dagger} &= -\text{In}^{\dagger} + \text{In}^{\dagger} = 9\text{T,ud} + \frac{\text{Ud}}{2}\text{iff} \\ \text{In}^{\dagger} &= -\text{In}^{\dagger} + \text{In}^{\dagger} = 9\text{T,ud} + \frac{\text{Ud}}{2}\text{iff} \end{aligned}$$

$$im = \frac{1}{100} + \frac{1}{102} = \frac{97}{2}$$
 Ugl  
 $iu = \frac{1}{100} + \frac{1}{100} = \frac{97}{2}$  Ugl  
 $iu = -\frac{1}{100} + \frac{1}{100} = \frac{97}{2}$  Udith  
 $iu = -\frac{1}{100} + \frac{1}{100} = -\frac{1}{100} = \frac{1}{100}$ 

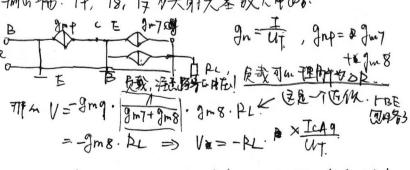
111.2. Einstellung der Verstörker,



Skript 13. UBEG-UBEJ+UBEZ-UNIS=0. I6- IJ = (2X-1/ Io ~ &UDE6- UBET. EXMIP ~ UBER-UBEP.

$$\Rightarrow I_{\mathbf{q}} = (1 - \lambda)I_{\mathbf{p}} , I_{\mathbf{q}} = \lambda I_{\mathbf{p}}$$

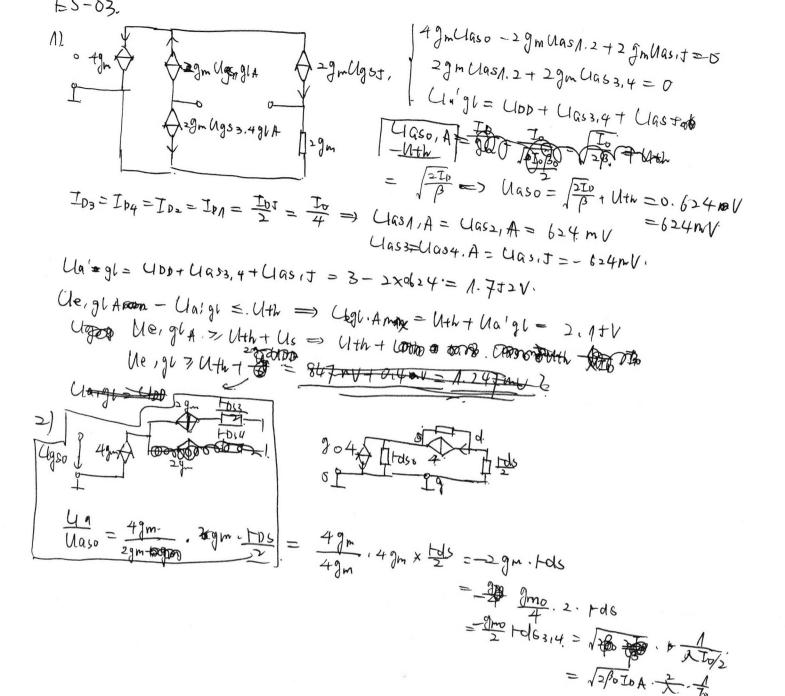
输出端. T+, T8, T3, 为天射光基放大中级。



Variation:第一个多的网络可如考考校和 東流地 1A= 11= 1+e-wx , 12= 1+eng -> 6-7+7-8=>0 10整号、景、景。30 

江南外报 电给计算

ES-ON. Io=IcA >> IcA = Ic4 = xIo, Ic2 = Ic3 = (1-x )Io LICE 3A = IORB = NOWA. 3KA = 30PMV Ue | BEAT | Smaller | The UT | The JM UE (3) V(x) = Wa = gm3. gm1+gm2. gm1. PL, gm3 = ggn1+gm2 = = - gm/. RL = - X To. RL.  $I_{A} = I_{A} \cup I_{A$ Ist It= In [ Ugl (UB+UA) + Wait (UB-UA)] 四条股東北先 I4+I6= In Ingl(UB+ WA) + Udiff (WA-UB)] Ist It - [4+Ib] = 13-14+11-16 [3+]+ [4+] = 2 70 . udiff (CIB-UA), M9 ~ NB-UA. pe, gegankoppelning, Linearlisietung. ES-02. 1. Ans VoHesny (传记中有计算生程)  $\frac{U_0}{N_0} = g_{73} z_0 \cdot \frac{g_{72} z_0 - 1}{1 + g_{73} z_0} g_{74} z_0 + g_{73} z_0 + g_{74} g_{73} z_0^2} \rightarrow g_{74} = g_{75} z_0 + g_{75} z_0 + g_{75} z_0^2 + g_{75} z_$ ne = 9727-1 9722+1. 2. Gejul = Jaco - D+ grac 972- jnc = 1exp j-22 arcton (- 1/2) - J2 , All pass, -2 arctam (172), 00-> 1400 -> 00-> 700 | ajul = 0. PAb 97: = tan 70° C= 97: +-70° = 57. PPF. a=-20/910, 1/16/20,76dB 4.  $\frac{1}{2} = \frac{1}{\sqrt{\frac{1}{1000}}} \frac{1}{\sqrt{1000}} \frac{1}{\sqrt{10$ 



= +76.2