## 模电等:幸作也

0601907 3524

1120193180

2-1.

1. aibi ai a

2. b

A3: 2-4.

" Ux>Uz>Ut

· 没某极b

- U7- Ux = 11.7-12= -0300 , UY- U2 = 11.7-6= 5-7 (V)

3. a16

···x是新加色,是杂化

小腿-T PMP型的局件子。

B. 3 :

\* Uz > Ux > Ut

1X是某个16b

1: Ux-U7 = -5.2+1 = -4.2(V)

Ux- Ut = -5.1+55 = 0.3 (V)

· 大杂版 c, 设领板 e

《这是-TMPN型的剧灯学.

ca). 不能。不应使用+Vu, 虚将+Vu, 替换成-Vu, 年梢鸲松岭页接。 2-7.

cb).不能·、缴1板处3名偏置, 庄将压碍 Va

co. 不能。其极了在与Vu相连,动态时其构接地,应在其极与Vu之间加一下处阻Re

d). 不能。 我被偏遇电流。将电台发射极到断开,将距接到Val

(e) IE

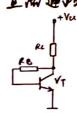
(f). 16

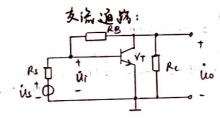
Cg). 不能。确义交流传言的到出端的的线的。在在集点极为ORC。

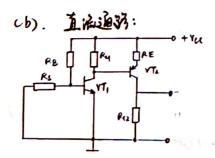
ch.不能。斯太友流传号的,Car将RBX系统。应将CBA科

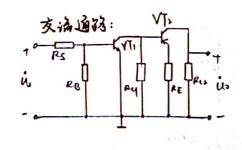
2-8.

ca). I海遍路:

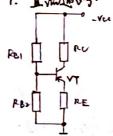








2. Aux Au = 
$$\frac{\dot{u}_0}{\dot{u}_1} = -\frac{\beta R L'}{r_{Pe}} = -\frac{50 \times \frac{90}{13} \times 10^3}{100 + \frac{26}{215} (1+10)} \approx -112$$
.



$$U_{B} = \frac{RBV}{Rel + RBV} C - V(u) = \frac{20}{y_{0} + 60} \times C^{2} = -4 (V)$$

$$U_{B} = \frac{U_{B} + 20}{Re} \frac{U_{B} + 20}{Re} = \frac{-4 \cdot 7}{-4 \cdot 7} = \frac{-1 \cdot 67}{-4 \cdot 7} = \frac{-1 \cdot 67}{-4}$$

#### 2. 微显了效比的:

$$\frac{1. Aus = \frac{uo}{u_s} = -\frac{Re}{Re+Rs} \frac{\beta (Re) Rus}{ree} = -\frac{Re}{Re+1/Rs +1/re+Rs} \cdot \frac{\beta (Re) Rus}{ree} = -60$$

 $2-16. \quad \text{VI} \Rightarrow 2-1543 \qquad A_{N} = \frac{\dot{U}_{0}}{\dot{U}_{0}} = \frac{-\beta R L'}{De} = \frac{-\beta R L'}{(170)^{\frac{2-\beta mV}{2}}}$ 

以为6哨人,200克杯鸡。

·· Au xXN , ne 1/3

· Ri = RBI// RBZ// Tye tax.

(2)

Y RETEX

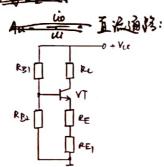
" IEarly "

· Au + Tot , roe + Fot

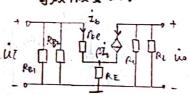
· Ri= Roi // Rout net有大.

2-17.

#### () X



驾驭椒盏电路:



$$0 \implies R_{E} = 0 \text{ pg}$$

$$12 U_{B} = \frac{R_{B2}}{R_{B2} + R_{B1}} V_{U} = \frac{10}{10+75} \times 18 = 2.12(V)$$

$$I_{E} = \frac{u_{0} - u_{0} e_{0}}{Re_{1}} = \frac{2.12 - 0.7}{1} = 1.42 (mA)$$

$$\frac{1}{100} = \frac{100}{100} = \frac{$$

.. Ro = Re = 8.2KR.

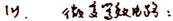
日.当胜=200年,用如上公代可绍

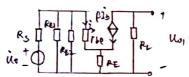
$$\frac{1.4n' = \frac{10}{100}}{100} = \frac{-100 \times 3.53}{100 \times 100 \times 10^{-3}} = -15.7$$

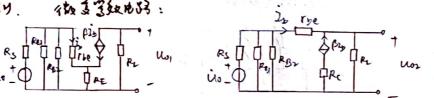
.. Ro'= Re= 8. xkr

· Perlix, Rothx, IAul Mis.

(1) 
$$VB = \frac{R_{02}}{R_{01} + R_{02}} Vac = \frac{11}{20115} \times 10 = 4.31V)$$



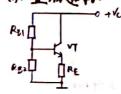




$$A_{NS1} = \frac{U_{01}}{U_{0}} = \frac{-\beta R_{0}}{r_{00} + CHFD R_{0}} = \frac{R_{0}}{r_{0} + CHFD R_{0}} = \frac{-60 \times 2}{1.2 + 61 \times 2} = \frac{8.2}{1.2 + 61 \times 2} = -0.79$$

$$A_{MS2} = \frac{\dot{u}_{02}}{\dot{u}_{S}} = \frac{(H\beta)R_{E}}{f_{De} + V + \beta R_{E}} \frac{R_{i}}{P_{i} + R_{S}} = \frac{61 \times 2}{(1.1 + 61 \times 1)} \times \frac{8.2}{8.11} = 0.797$$

# 2-19. 11. 直流通路:

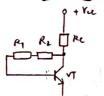


The state of the s

四、稻等效电路:

$$\therefore Au = \frac{\dot{u}}{\dot{u}_i} = \frac{\dot{I}e RL'}{\dot{I}_b r_b e + \dot{I}e RL'} = \frac{(17p) RL'}{r_b e + (17p) RL'} = \frac{101 \times 1}{1.55} = 0.987$$

#### ⑴, 直治通锅:



(4. 微复3级电路:

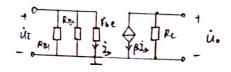
$$\begin{array}{c|c} P_1 & P_1 & P_2 & P_3 & P_4 & P_4 & P_5 & P_6 & P_6$$

... 
$$Au = \frac{i\omega}{ik} = \frac{-\beta i b (R = 1/R =$$

$$Au = \frac{\dot{u}_0}{\dot{u}_s} = \frac{\dot{u}_0}{\dot{u}_i} \cdot \frac{\dot{u}_i}{\dot{u}_s} = Au \cdot \frac{\dot{\mathbf{I}}_0 r_0 e}{u_s} = \frac{r_0 e/\mu_1}{r_0 e/\mu_1 + \mu_s} A_{u} = \frac{1.77}{1.77 + 1} \times (-148) = -83.$$

"RB2 = 85 km.

### 17. 绘第3级比较



$$\frac{i}{4} \frac{i}{4} = \frac{i}{2} \frac{i}{4} \frac{i}{4} = \frac{-\beta i}{4} \frac{i}{4} = \frac{-\beta i}{4} = \frac{\beta$$

Ri = RBI // RB=// Tbe = 2-4 kn

Ro=Rc= JizkA.