

课程名称:\_

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教学班级:

姓名:

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24.解

1. a.b; a,a

2. b

3. a,b

4. a, a, b

5. 6.

24.解:

A管: NPN.

X-C

Y-b

Z-e.

B管: PNP

x - b

Y-e

王-0

2-7解

a).不能

+Vcc双为-Vcc

b).不能

联系方式:\_\_\_\_

将RB效为一端 接基极名一端 格Vcu

0-不能 在基极与Vcc之间 接一电阻R3

d)·不能 将RB改为一端 接基极,另一端 接Vu

9 能正常放大

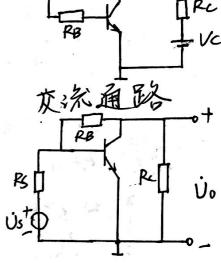
力能正常放大

g)不能 在集电极学心 辽间加电阻尼

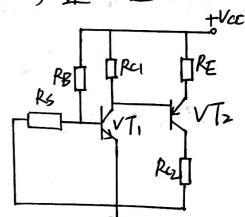
h).不能去掉略答CB

2-8.解

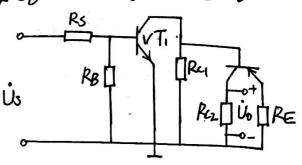
a). 直流通路



的. 直流通路



灰流通路



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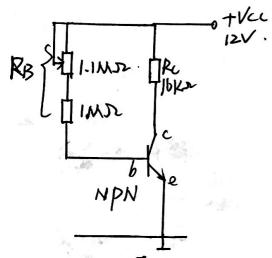
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2-14解:

1.直流通路

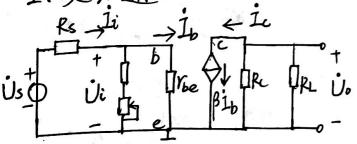


$$IBQ = \frac{ICQ}{B} = 0.01 \text{ mA}$$
  

$$\therefore RB = \frac{VCC - UBEQ}{IBQ}$$

=1.13M2

2. 交流通路微复等效电路



联系方式:\_\_\_\_\_

$$= \frac{U_0}{U_i}$$

$$= \frac{-\beta I_b (R_c I/R_L)}{I_b \cdot Y_b e}$$

$$= -\frac{\beta (R_c I/R_L)}{Y_b e}$$

$$V_{be} = V_{bb}' + V_{be}'$$

$$= 100 + (H\beta) \cdot \frac{26mV}{IEQ}$$
由静态工作总分析:
$$IEQ = \frac{I+\beta}{\beta} I_{iQ}.$$

$$= 26(0.01 \text{ mA}) \times (H\beta)$$

: Au & - 113.9.

输电阻Ri:

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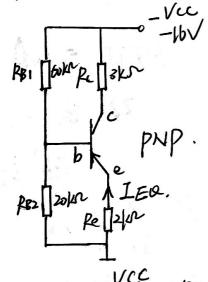
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3.由2题

$$R_0 = R_c$$
  
= 16/LA

2-15解

、美直綠風路



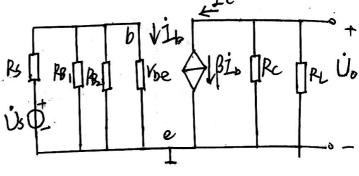
联系方式:-

: Ice = 1. DmA.

:. IEO & 2.4 mA.

: RBI & 47 09KSL.

3. 纵复等效电路



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Uo = -Ic(Rc1/RL) Ic= BIb

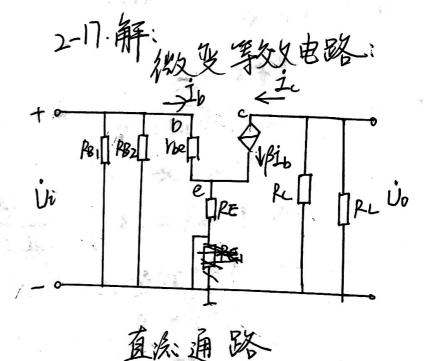
The =  $V_{bb}$  +  $(1+\beta)$   $\frac{26mV}{1EQ}$   $Ui = I_b \cdot V_{be}$  $Ri = RB_1 1/RB_2 1/V_{be}$ 

Ro = RCHRL = 3KM

: Aus = Ri Vo Rs+Ri Vi

 $1. Au = \frac{-\beta(Rc11RL)}{Ybe}$   $\frac{(Rc11RL) \cdot I_{EQ}}{2bmV}$ 

Ri=RBI || RBI || BYGE 八 B增大, Au基本不变 但 Ri会因 You 增大而 增大 2. 若阳增大则IEQ相应减小 AVD植之成小且Ybe增大 C. Ri增大



PBI PEI

联系方式:

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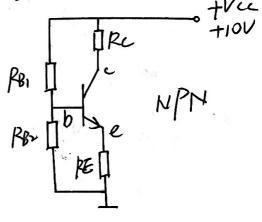
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$$Au = \frac{U_0}{U_i} = \frac{-\beta I_b (RcIIRL)}{I_b Y_b e + (I+\beta) RE I_b}$$

$$= -\frac{\beta (RcIIRL)}{Y_b e + (I+\beta) RE}$$

# 1. 直烧通路





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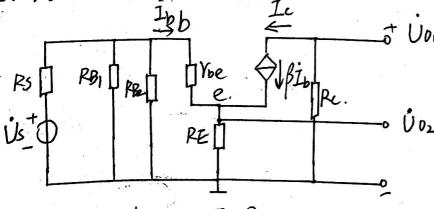
≈ 43V.

= 1.8 mA

& Ica

. UCED

2. 微奥等处电路



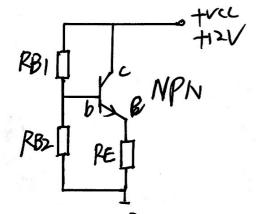
× 1.18KM

Audi= 
$$\frac{Uo}{Ui}$$

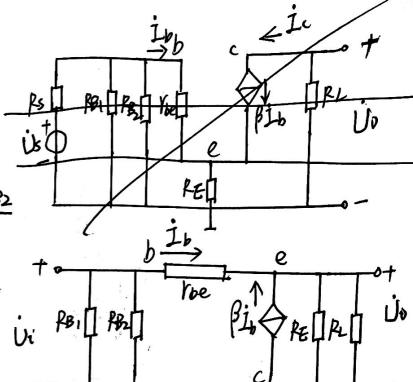
$$= \frac{(1+\beta)RE1b}{IbYbe+(1+\beta)IbRE}$$

$$= \frac{(1+\beta)RE}{Ybe+2(1+\beta)RE}$$

#### 1. 考直於通路.

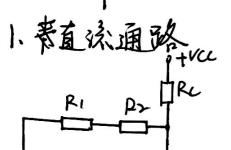


UB 
$$\approx \frac{PB2}{RB.+RB2} \cdot Val$$
  
= 4.9 V

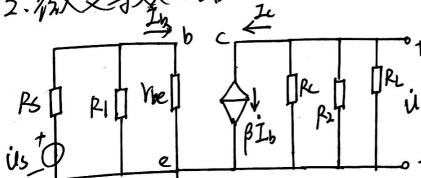


$$Vbe = Vbb' + (H\beta) \frac{2bmV}{Iba}$$

$$= 1.35 \text{ KJ}$$



2. 微处等效电路

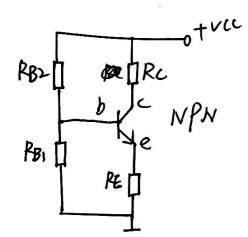


$$Auu = \frac{\dot{U_0}}{\dot{U_i}} = \frac{-I_c(R_c IIR_2 IIR_l)}{I_b \cdot Y_b e}$$

IEQ a Ica = 1.33 mA

Ri 21.3Ks

### 直流通路



$$IB = \frac{Ico}{\beta}$$

$$= 10 \text{MA}$$

