第二章作业作业纸

课程名称:

1907

数学班级: 190

姓征 周树庚

学号: 1120192859 第

Л

2-1

1.a, b, a, a

2.6

3. a, b

4.aab

5. 6

2-4

2-7

(a)不勝不滿足PNP型的反射發石偏, 来級电腦反偏, 应改为一Vcc

(6)不鮳 弘将 RB 改成 基极的上扬电阻。

(c)不够不满足拨射集电转反偏,且 动态电路基极超快,无输出。 应在基极掛上拉电阻 RB。

A官: Y是基极

Ux-4 Y=0-3 V

·'. X是发射极

乙是集电极

" Ux>47>Uz

-'. PNP型

B管 X里基极

Ux-Uz=0.3V

又是軍发射极

Y是集电极 NDN III UY>UX>UZ

_'. NPN型

(d)不能无宜流流过基极,不满还能石学效大, 应将RB上拉至接Vcc

(e) 態

(f) 镌

(g) 不够石带放大, 因为食流通锅 输出对处 短路, 不防输出

(h)不畅, 交流通路基极接地短路 三极宿不防石滞输出

联系方式:_____



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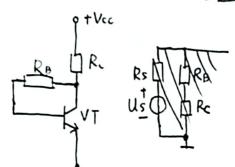
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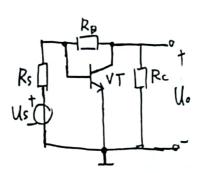
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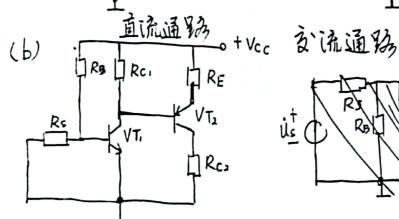
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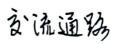
2-8

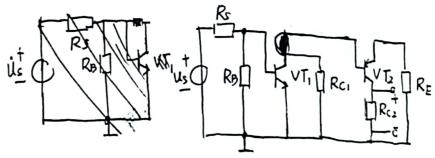
(a) 直流通路 交流通路





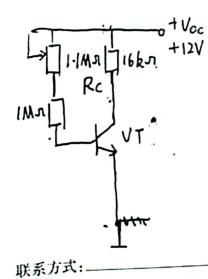






2-14

1. 直流通路



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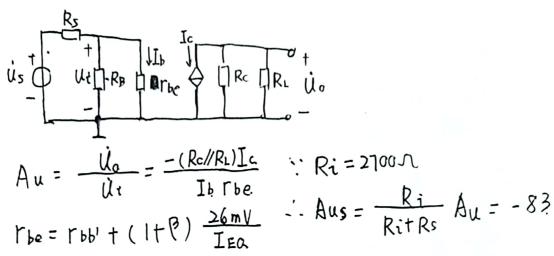
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2.



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班级:

教学班级:

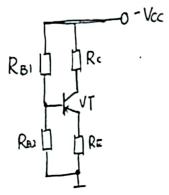
姓名:

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5, 51

2-15

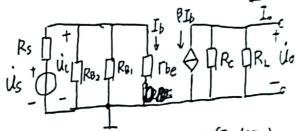
1. 直流通路



联系方式:_____

___ RBI=42.7k1

3.



$$Ri = \frac{Ui}{Ii} = R_{B2} / |R_{B1}| / r_{be}$$

$$= 1.2 k \Lambda$$

$$R_0 = \frac{U_0}{I_0} = R_{c.} = 3k\Lambda$$

2-16

上电压增益不改和人电阻增大。

2.电压增益;) 输入电阻增大。

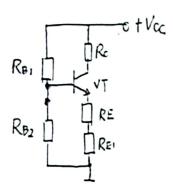


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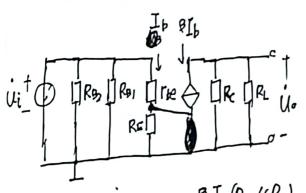
2-17

直流通路



致流通路

联系方式:



Ri = Ui = RA2//RB2//[rba+(1+2) RE] = 1.63ks.

$$I_{Ea} = \frac{U_{Ba} - 0.1V}{R_{Ei}} = 1.42 \text{ m/s}$$

$$R_{i} = \frac{U_{i}}{I_{i}} = \frac{U_{i}}{I_{i}} = \frac{R_{B2}}{R_{B2}} \frac{1.22 \text{ kn}}{I_{Ea}}$$

$$R_{i} = \frac{U_{i}}{I_{i}} = \frac{R_{B2}}{R_{B2}} \frac{1.22 \text{ kn}}{I_{Ea}}$$

$$= 6.3 \text{ kn}.$$

RE增大,电压增益绝对值液 Ri 增大.

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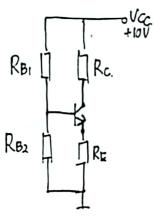
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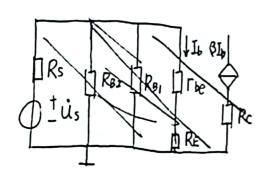
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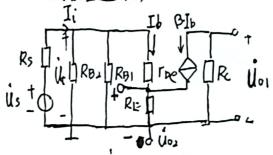
学号:

2-18 耳流通路



2. 交流通路





$$A_{us_1} = \frac{U_{01}}{U_{i}} \frac{R_{i}}{R_{i}+R_{s}}$$

$$R_{i} = \frac{U_{t}}{I_{i}'} = R_{b2}/I R_{B_{i}} // [\Gamma_{be} + (I+B)R_{E}]$$

$$= 8.7 kR$$

IEa
$$\hat{z}$$
 Ica = $\frac{1180 - 0.7V}{RE} = 1.8 \text{ mA}$

$$\frac{-1.8 \text{ mA}}{-1.8 \text{ mA}} = \frac{-8 \text{ lb} Rc}{-1.8 \text{ lb} rbe} + (118) \text{ lb} Re = \frac{8.2 \text{ kn}}{8.2 \text{ kn}} + \frac{2.2 \text{ kn}}{2.2 \text{ kn}}$$

$$Ro_1 = \frac{\dot{l}_{o_1}}{\dot{l}_{o_2}} = Rc = 2kn$$

联系方式:

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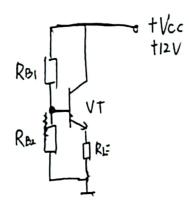


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2-19

1. #直流通路



UCEQ = VCC - IN IEARE = 7.7V

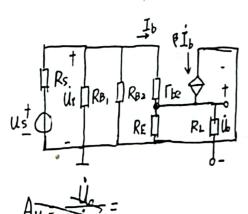
NATURALIE TERRETARE Au= Uo = (ItB) Ib (RE//RL) = Ib The + (ItB) Ib (RB. // RB.)

I 0.987

$$Ica = Iea = \frac{U_{BA} - 0.7V}{RE} = 2.1 \text{ mA} \quad R_0 = \frac{V_0}{I_0} = R_E // \frac{\Gamma_{be} + R_B // R_B // M_R_S}{1 + B_B}$$

$$= 23.2 \text{ s}$$

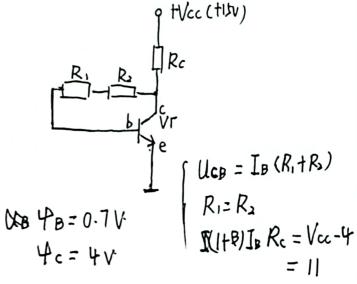
2.交流通路



联系方式:.

2-24

1. 直流通路



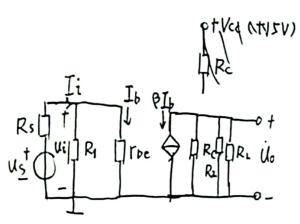
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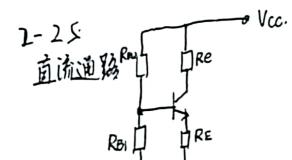
R= R= 62kn

2 交流通路



$$Au = \frac{\dot{U}_0}{\dot{U}_i} = \frac{-\ell I_b (R_c // R_s // R_b)}{I_b r b e}$$

$$R_0 = \frac{U_0}{I_\infty} = R_c // R_2 = 7.3 k \Omega$$

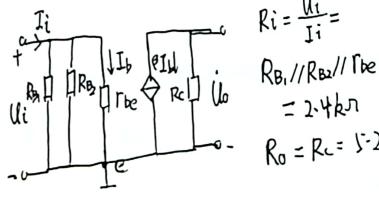


联系方式:-

1.
$$UBA = \frac{RB_1}{RB_1 + RB_2} VCC = 3.5V$$

$$UBEA = 0.7V$$

交流通路



$$Ri = \frac{Ui}{Ii} = \frac{V}{V}$$

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