作业纸 课程名称: 植址电子技术

班级:06011907 教学班级:1120 姓名: 本皇 京 学号:1/20193186 第

- 2-11 a b a a
 - 2. b. le= Blo

 - 4 a a b
 - J. b B. wxx.且反向电底大
- 2.4. A: Ux>Uy>Uz, Uxy:0.3V Y:亳机. X:发射机, Z集1数. PNP
 - B. Uy>Ux>Uz=03V NPN型 X: 基权 4: 集电权 Z:发射极
- 2.7 a) PNP型, 其 Ue < Ub, 不满足 Ue >Ux>Uc, 不能 双: +Vu及为-Va, 电客反向
 - (6) 650 国电压, 石华发射线不偏置
 - 改:Ri取消技地,改为接Vcc
 - (C) b科过大、Us>Us>Ue,饱和雅双大;且交流时输入U天尺。提 但的 改. b与Va间加Rb

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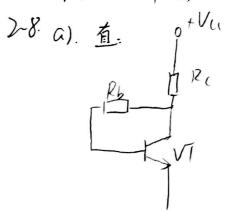
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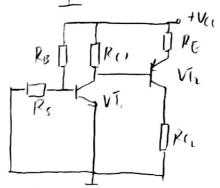
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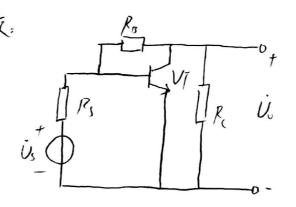
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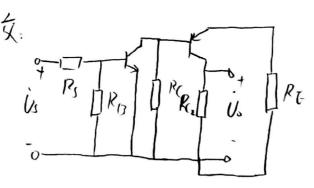
ld). 基构无电流(偏置),天层放大 RB与e断形,找到Vcc

- (e) 可以放大
 - y,可以正常放大.
- 9)交流时输出对地短路 双:Va与c间加Rc
- 的交流时Cn将基构对地矩路天法输入信号改定专样Cn









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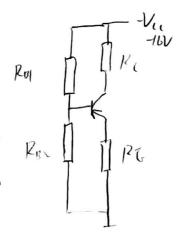
$$I_{BU} = \frac{V_{CC} - U_{BG}}{R_{B}}$$

信 $R_{B} = 1.13 M \Pi$
(2). 写好。 $P_{S} = \frac{1}{12} \frac{1}{$

$$r_{be} = r_{bb'} + (1+\beta) \frac{26mV}{160} = r_{bb'} + \frac{1}{(1+\beta)} \frac{26mV}{180} \approx 2700 \Omega$$

Ans =
$$\frac{U_o}{\dot{U}_s} = \frac{R_i}{R_i + R_s}$$
 An $R_i = R_b 1/Y_b e^{\frac{1}{2}} Y_b e^{\frac{1}{2}} 27 \omega \Omega$

Aus = 83.2



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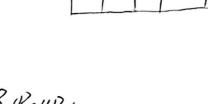
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2-163/微变等效

R: = RB, 1/RBL// Ybe = 870 S



2-16.1,由武易知

$$\beta \uparrow \square A = \frac{\beta (R c I R c)}{(H \beta)^{2 \delta n V}} = \frac{\beta}{H \beta} \frac{R c I R c}{2 \delta n^{V}} \frac{\beta}{160} = 1.$$

Aux 2. Ri + Me 1, A) Rit

(2) RET
$$Au = \frac{\beta}{1+\beta} \frac{1E\alpha}{26mV} = \frac{\beta}{1+\beta} \frac{U_B - U_{BG}}{RE} \frac{P_{L}/IR_{L}}{26mV}$$
 And

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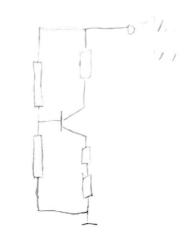
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2-17. 直流等效.

微变家处

$$\Delta u = \frac{U_0}{U_1} = \frac{i_b \beta(R_L / R_C)}{(I_b + \beta i_b) R_0 + i_b r_b} \approx \frac{1}{16} - \frac{1}{16}$$

$$R_0 = \frac{V_0}{V_1} = \frac{1}{16} \frac{V_1}{V_2} = \frac{1}{16} \frac{V_1}{V_2} = \frac{1}{16} \frac{V_1}{V_2} = \frac{1}{16} \frac{V_1}{V_2} = \frac{1}{16} \frac{V_2}{V_2} = \frac{1}{16} \frac{V_1}{V_2} = \frac{1}{16} \frac{V_2}{V_2} = \frac{1}{16} \frac{V_1}{V_2} = \frac{1}{16} \frac{V_2}{V_2} =$$





Ri= RB1// RA1// Ybe+ (4B) RE = 1.59KN Ro= Rc= 8.2KN

包 Rt=2w时, 图理

12.= 12: 87KS

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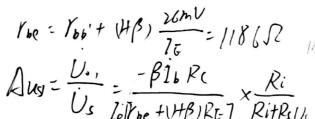
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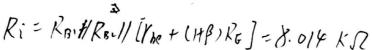
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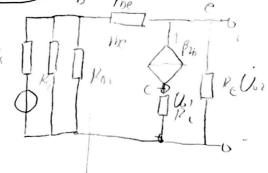
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2-18 山直点等效

12、很变等双拿电影灯输出《文/66/=3~2







Aus & - U. 78

EP Ausi =- U.78 Ausz = U.79

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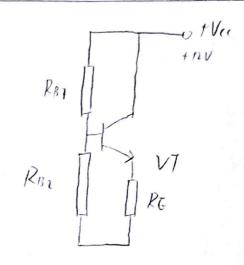
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219. 山, 直流等效.

VCGQ = VCC- TENRE = 7.8V

1、微变等效

Au= Us = (1+ B) (Re 1/RL)
Ybe + FSHRSHHRISE



- U.99

Right Dott RBITKBY

R, = RE // The + PS//Ren//KB2 = 10. +5 D

2.24.(1) 直流 设加原

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(2) 微变等效

The = Tbb'+ (HB)
$$\frac{26mV}{2c\omega}$$
 = 130852 Ust

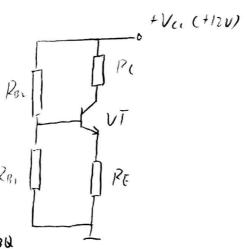
2-25.111直流等级。

UBG UBERT PLUX RE = SUBGR

Vec- Vet 1. (RB, + RBL) = Vec 1ca=\$180

对尼山有 Vai = Re Jan + Ucka+ (Um-Uma) 得 Ra-52KM

联系方式: EP RBI= 35KD RBI=85KD RC= 5.2KD RE=2.8KD



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江, 拟变等效

$$Au = \frac{\dot{U}_{0}}{\dot{U}_{1}} = \frac{-\beta l_{b} R_{c}}{1 \text{ b rbe}}$$

$$= \frac{-\beta R_{c}}{r_{be}} = -192.6$$