

作业纸

课程名称: 模包

班级:

教学班级: 06011907 姓名: 李传%

学号: 1/20193124 第 页

2. Tee/Piths) TUCHO = V.

24. A: Ux>UY >U2.

Ux-UY < UON, UY-UZ > UON.

B: Ur>Ux>Uz.

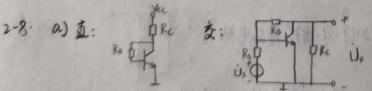
UY-Ux>Uon, Ux-Uz & Von.

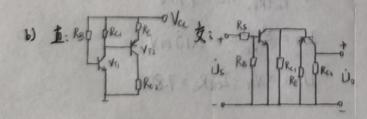
:Y集电极,X基极,Z发射极、PNP管.

- 2-7. a) 不能. PNP管 -> NPN管
 - b)不能 VRB上接 Va 下接b.
 - c) 不能. Uce=Ube. 去掉 b上接 Va 的线
 - d) 不能. Ube<Uon. Ro接Va与b.

 - f) %
 - 生) 不能. Cz与 Vann 接,在Cs与Vail 加Rc.
 - h) 不能, C, CB 与 Var相连, 去掉 CB.







联系方式:_

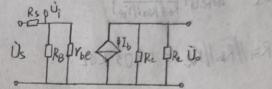
2-14 April 1. Ica = asmA. Ica = Ica = 10 MA.

LEQ = (B+1) IBQ = O.S) mA.

Ybe = Ybb' + (HB) 2/mV = 2700.52

IEQ (Re+roe) = Vac #18 Re = 1.1973 M.D.

2. 微变等效电路:



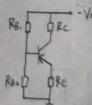
Au = 10 = - 1c/Rel/Rel = - 1/3.96

Aus = Us = Rose Rellyne Au = -83.11.

3. Ri = Ui = Re/1/be = 2.69 ksz.

Ro = Uo = Re = 16k12.

2-15. 1.直流等效电路: Rs. DRc VCC



UB = RBZ Vac = -44.

IER = UNTURE = - libs mA

Ica = Lea = ol.bsmA.

IN = 100 = 00 275 MA.

UCEA = Ica Re + IEA RE - + = 7.75V.

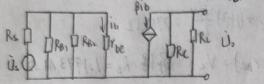
: IBa = 275 MA, Ica = 1.65 mA, LOER = 7.75V-

2. - I ea (RotRE) + UCEQ = Va. 解傳 IER = 2.4 mA.

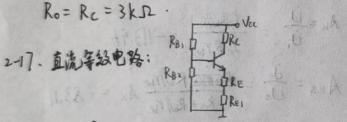
> UE=-RE IER = - 4.8V UB= VETUBE = -55V.

RB, tRe, Va=UB, 解得 RB, = 38,18 K几.

3. 微变等放电路: You= (1件) 1/2 = 961 几.



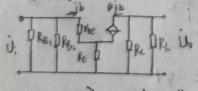
Ri = RB1//RB1/Vbe = 0.903 KD.



UB = RB2 VCC = 2.12 V

IER = UB- UBE Vbe = Ybb + (1+B) 2 bmV IER.

徽美等级电路:



R: = RB1//RB2//[Ybe+(1+B)/RE]

Ro = Rc.

RE=0, An= 181.1. R;=1. 10 ks. Ro=8.2ks

RE=200, Au=15.68. R; = 22.13 ks, Ro=8.2ks.

、RE在电路中可望著增加电路的输入电阻,搜急 电路的 抗干扰缺力, 但会造成 电压增益 肌降低.

UB = Ro, TRB, Vcc = 4.29 V

IER - UB-UBE = 1.79 mA = Ica = 1.79 mA.

Vc1 = Uctat Ica & Rct ItaRE

: Ica = 1.79 mA, 1 Ucra = 2-83 V.

2. jo, 微变等級电烙: jog 微变额电路: Re DRO, RED RED LO DO DRE DRE DRE DRE

3. Ri = RB, 1/RB2/1[roc+(1+)/RE] = 8.01 KD.

$$R_{02} = \frac{\dot{U}_{0}}{\dot{Z}_{0}} = \frac{\dot{U}_{0}}{\dot{I}_{RE} - [PH]} \dot{I}_{b} = \frac{\dot{U}_{0}}{\dot{V}_{2}} - [PH] \frac{-\dot{U}_{0}}{\dot{V}_{bet} R_{0}} = \frac{28.76 \Omega}{28.76 \Omega}$$

219.1. 新答等級电路: Res. D PRE UB = RotRB2 Vac = 4.90 V

Ica = U8-U8E = 2.10 mV.

Ucea = Va - Ica Re = 7.80V



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2. 微美级电路: Ybe=Too+(HP) 26mV =1350 IZ. 2-15. 1. Ica=1md, Uc= Va-Icake. UE=IEa RE. RS D DRO, DRO PED DRI UO

R; = R81// R82//[Ybe+ (178) (RE//RL)] = 21.86 k sz.

IRC = IB+Lc = (Pt1) IB, IB = 26.3 MA, Ic=1.32mA U: PRO, RE DIRC U.

: R = R = 62.73 ks.

2. 俊美教教: ric = rib + (14) 1/20 = 1290.D RS DR, VAPID DRORL

联系方式:

IBA = Lea = 1MA . I, = NOIBA = 001 mA -

Ucra = Uc-UE = Vec-Ica (Rethe)

Vcc = I, Re. + I, - Iaa) Res.

UBFQ = I, RB, - IER RE.

5 UNER = I, RB,

展立上述 4式,解傳 {RB,= 350 K.D. RB= 444 k.D. Rc= 5.2 k.D. Rc= 5.2 k.D. Rc= 5.2 k.D.

$$Au = \frac{\dot{U}_0}{\dot{U}_i} = \frac{\dot{p}\dot{L}_b Rc}{\dot{r}_b\dot{e}\dot{L}_b + l(tp)Re\dot{L}_b} = 1.82$$

Ri= RB, // RB2 // (The+ (HP) RE) = 134.79 ks2. Ro = Rc = 5.2ks2.