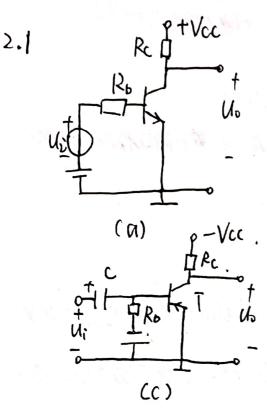
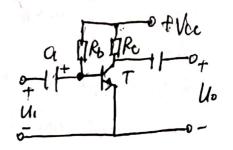
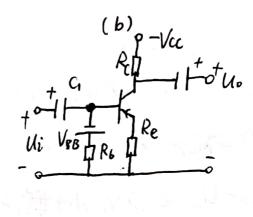
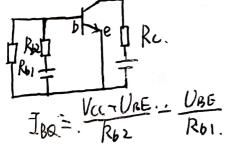
## 楼电第2章7题 的加州王 1904/0102







- 2.5 (1) O(X) @(X) B(X) B(V) (2) O(X) B(X) B(V) B(X)
  - (3) O(X) Q(V) B(X) (4) O(X) Q(V)
  - 故川田(沙田(3)田(4)田師,其緒漢.
- 2.6 解.直流电压表泌屋为直流电应即求以一口时集电极电险 12) Rofe的, UBE=0, T就上, Uc= Vcc=15V



IN= BIBR

- (4) Roz开路 四1 T截止, Uc=Vcc=15V
- Uc=.Vcc-Ica.Rc=7.9 V. (3) RD2 友豆路. UBE=VEC=15V. b-e 特例 Uc=15 V. b-e 硅路, Vcc经路, 无结判断
  - 16) R短路, U=Vcc=15V

ム7角平 11)控载情况下

IBQ. VICE-UBER - URER = 22MA

Ica = BIBR = 1.76 MA

View = . Vici - Ica. Rc = 6.19 V.

bente申阳 rbe= rob+ 26mV= 1,28kg

 $Au = \frac{-\beta Rc}{k_{00}} = .-312.5$ 

Ri = RollAtbe = . 1.25 ks.

Ro=Rc=5kr

2.9 11) Ica = Vic-View = 2 mA

 $I_{BR} = \frac{I_{CO}}{\beta} = 20 \text{ MA}$ 

Ro = Vcc - UBER = 565 FA

R. 取值基大于3.3KR

12) interstit. Au = - BRG 13RG= 2kn. RG= RUPR = 2kn. Rc=3.3kn

P. = . Rell (net Rella

2.11(1)在全部等效为 Voc = · Kbl. Rri+Rh, Vcc = 2V.

Ri= Rul/Rbz = 25 K.n.

斯凡图路 Voc=. IBARi+URGA+BH)IBARF+Re中的R

18 IBQ = 9:6μΑ ICQ=βIBQ= 960MA

VOER = VCC - Ira. Rc - (Bt1) IBQ. (Rf+Re) = 57V

rbe= rbb+ 26mV = 2.81Fs.

Au= - B.(Rc11Rc) = -7.55.

 $R_{i} = \frac{U_{i}}{I_{i}} = \frac{1}{R_{bi}} + \frac{1}{R_{be} + (1+\beta)R_{f}} = 3.7 \text{ fs}$ Ro=. Rc= 5FD

(2)带施载尼二张几下。

新克基根, 使电报及Pie 不变

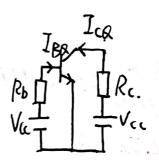
IBR=ZZMA. Ica = 1.76MA

he=1.3FR.

VIER= Ru(Vic - Ica) / ( Ft + Rc)= .2.3V.

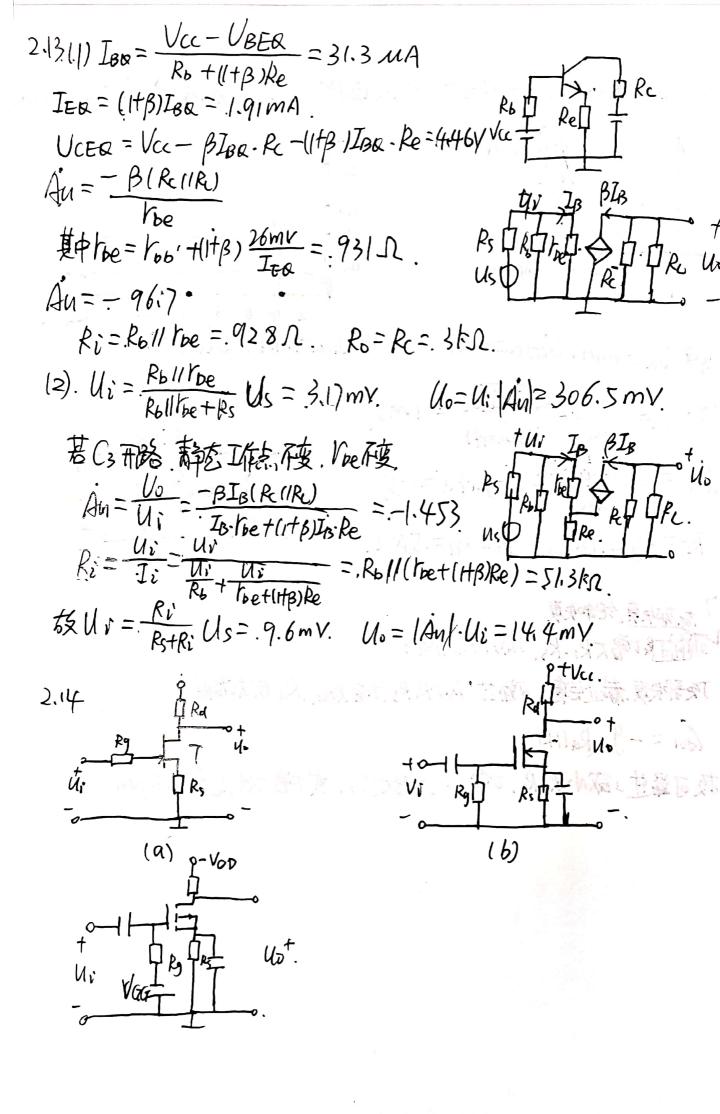
Au = - B(R. IIR) = - 115,4 Ri = Ro 11 Foe = 1,25 F.R.

Ro= Rc = 5FR

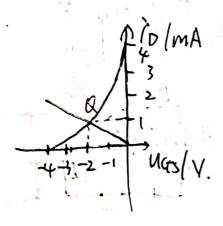


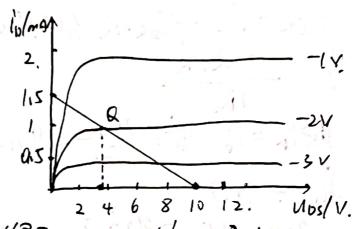
13) Ri 左复 Ri = RmIIRb211(Rbe+(+片)(Rf+Re))=.4(K)

Au/ 表集 Au = 
$$\frac{\beta'(R_1||R_1)}{R_{be}+(|+\beta')(R_e+R_f)}=.-1.89$$



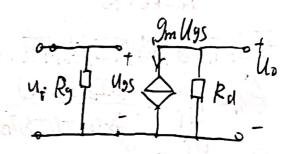
2.15 11) Ulas=Tio-Rs 假出Ulas=-io-Rs 曲成,做直流域以Us=Vno-iolletts





将ioa=ImA. VGSQ=-2V.

12). 
$$g_{m} = \frac{\partial \dot{v}_{0}}{\partial U_{GS}} = \frac{2\sqrt{10\cdot I_{0SS}}}{U_{GrS}(off)} = Ims$$
  
 $A_{11} = \frac{-g_{m}U_{GrS}\cdot Rd}{U_{gs}} = -g_{m}\cdot Rd = -5$   
 $U_{gs}$   
 $R_{i} = R_{g} = IMM.$   $R_{0} = Rd = .5RM.$ 



2.17 在姚真、饱和焕真

11) 可随けは含まRi.Rs、)放小Rz、Ra;

顶部模,截此镇、面壁成小P.Ps.大幅大R. Ra 方法的除

12) Au = - 9 (RallRL)

故可强性上成小RiRs, t曾太Rit常大gm, 实地大Rd, RL丰地大lAn