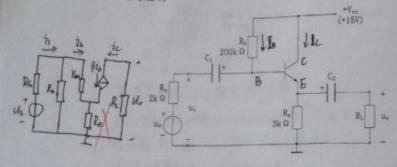




自路如图所示共集电极电路,晶体管的β = 80, nbe = 1kΩ.

- 2. 分别求出 R=∞和 R=3k Q 时电路的 A.和 Tai



(1)
$$V_{cc} = R_b \cdot I_B + U_{gE} + R_e \cdot (1+\beta) I_B$$

$$= > I_a = \frac{V_{cc} - U_{gE}}{R_b + (1+\beta)R_e} = \frac{15 - 0.7}{200 + (1+80) \times 3} = 0.032 \text{ m/A}$$

$$I_c = I_B \beta = 0.032 \times 80 = 2.56 \text{ m/A} \approx I_E$$

$$U_{CE} = V_{cc} - R_e \cdot I_E = 15 - 3 \times 2.56 \text{ V} = 7.32 \text{ V}$$

(2)
$$R_{L} = \infty R f$$
 $U_{i} = \tilde{l}_{b} Y_{ie} + (1+p) \tilde{l}_{i} R_{e}$
 $V_{i} = 1.964 \text{ kp.}$
 $R_{L} = 3 \text{ kp.} R f$
 $R_{L} = 3 \text{ kp.} R f$

第3页共12页

