4章作业答案

4、11 是 (a) 计等静态工作类 包格 Zea II $I_{co} = I_{zo} = \frac{V_{zz} - V_{\beta zu}}{2R_z + \frac{R\rho}{3}} \approx 1.4 \text{ mA}$ Vc20 = Vac+V22. - Ice (Rc+ 2+2Rz)=8.5V (b) 计算 And. Anc 与 KowR. The = (hb) + (1+/3) \frac{1}{7200} = 1.43 km And = - BRC/12 = -50.7.

RB+ The + (HB) 2 电给对称双端新生、放剂(=0 Kema = And = Do 差模输入电阻 Rid=2[RB+Vhe+Vi+ys)] = 628 kr 输出电阻 Ro=2Rc=10.2 km

(1) 当凡改接下采电极与地之间, 电路复为年端减去,重新计算风. 由PRL>>PRC 故 Q矣基本改。 Ico=14mA Ucze=8.5V And = - BRCHRL = -27.9 (说明,军为时凡不用分,指盖需减丰) Auc= - BRCIIRL = -0.49. Kank = And = 57 表模输入电阻 Rid=2[Ro+Kne+11+18)] = 11 +0-# --- Ric= RB+The +11+8>(RP+2RZ)

半端斯为 Ro=Rc=5.1km

4.13题·(a) 革游输出见 26.54(同相. R. 支接在Cx处. SNo=And > Uzd + Ancs Wzc. = And (Uz1-Wzz) + Anc Uzi+Uzz 车端新入 VII=VI, VII=0. Mallo= Andalled + Ancollec = And VI + Juc 2 to $V_I = \frac{\Delta N_O}{And + Anc}$ 竹并下午飞的Q. (T收的在管) IEQ = V22-UBZe = 1.39 mA. 可不付着 Q 电圣值、后面分析不需要这个 也沒有问 The = 1/hb' + (1+B) 1/20 = 2.0 Km. And = 1 B(RC//RL)
RB+/he+(HB) = 18.7 Anc= - BRCIIRL =-0,32
RB+1he+(HB)(P+2R2)

粉上页 4、13题 当输出中亚 DNG =2V. 新入福 M2 = 207 mV. 故、输入信息至为复为107mV 的差模编入电阻 Ri=2 (Ro+1/k)+ (1/s) 2]=18.1 km 当考虑信号准内型时、 M= Kin Ns N= Ri+Re Nz = 118.8 mV (C) 芙模柳制比· Kank = And = 58.4 方法二·(9) SNO=And 'SN2d+Anc:SNZC 到验共模的影响. o Wo a And . DV2d. M VId = 300 = 18,7 = 106.95 2107mV

包的专模信号的外面

419题。建筑是带中国的厚意的放大 电路。特容2012 是 421的厚外奔。 $I_{E3} = \frac{V_2 - V_{B23}}{R_2} = \frac{6 - 0.7}{2.3} = 2.3 \text{ mA}$ $T.T_2$ $Z_{L1} = Z_{C2} = \frac{I_{23}}{2} = 1.15 \text{ mA}$. $V_{C1} = V_{C2} = V_{CC} - Z_{C}R_{C} = 4.87V$ $V_{D} = V_{D} + (H_{D}) \frac{V_{T}}{I_{E1}} = 1.45 \text{ kg}$ $V_{M} = V_{D} + V_{M} = -1.26.38$ $V_{M} = -R_{D} + V_{M} = -1.26.38$ $V_{M} = -R_{D} + V_{M} = -1.26.38$ $V_{M} = -R_{D} + V_{M} = -1.26.38$ $V_{M} = -2R_{C} = 12.4 \text{ kg}$ $V_{M} = -1.9 \text{ kg}$