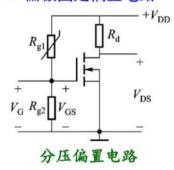
2021年1月23日 23:48

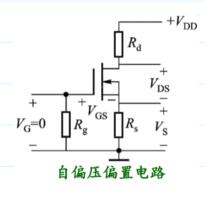


国于编辑型 NMOS (Vas > D)

自偏置电路

用于私屋型

斯态编置

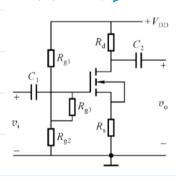


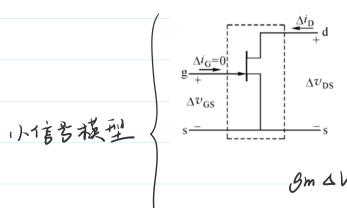
VG = 0

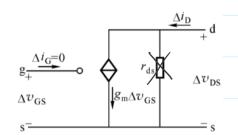
$$VGS = VG - VS = -20 \cdot RS$$

$$iD = Z_{DIS} \left(1 - \frac{V_{BS}}{V_{P}}\right)^{2}$$

混合偏置



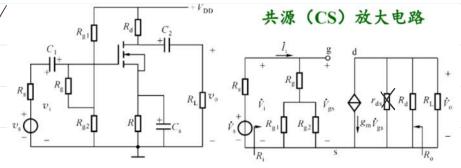




Bm AVCs

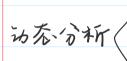
W 5 00 5

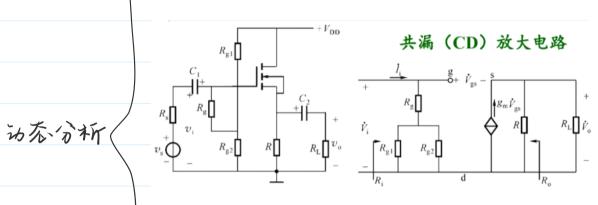
Bm AVCs Vds 忍可答

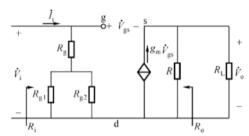


共源 (CS) 放大电路

$$R_i = \frac{\dot{V}_i}{\dot{I}_i} = R_g + R_{gi} / / R_{gi}$$
 $R_o = R_d$

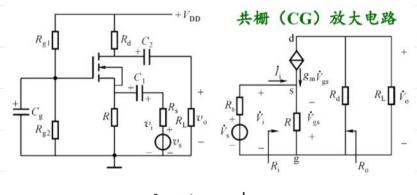




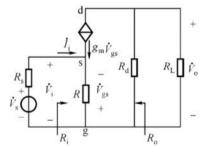


$$\dot{A}V = \frac{g_m \dot{V}_{gS} \cdot R_L'}{\dot{V}_{gS} + g_m \dot{V}_{gS} \cdot R_L'} = \frac{g_m R_L'}{1 + g_m R_L'}$$

$$R_i = R_3 + R_{g_1} / / R_{g_2} \qquad \qquad R_0 = R / / \frac{1}{g_m}$$



共栅(CG)放大电路



$$\dot{A}_{V} = \frac{-g_{m} \cdot V_{gS} \cdot R_{L}^{1}}{-V_{gI}} = -g_{m} R_{L}^{1}$$

$$Ri = R / \frac{1}{gm}$$

$$Rp = Rd$$