

電腦輔助電路設計

作業

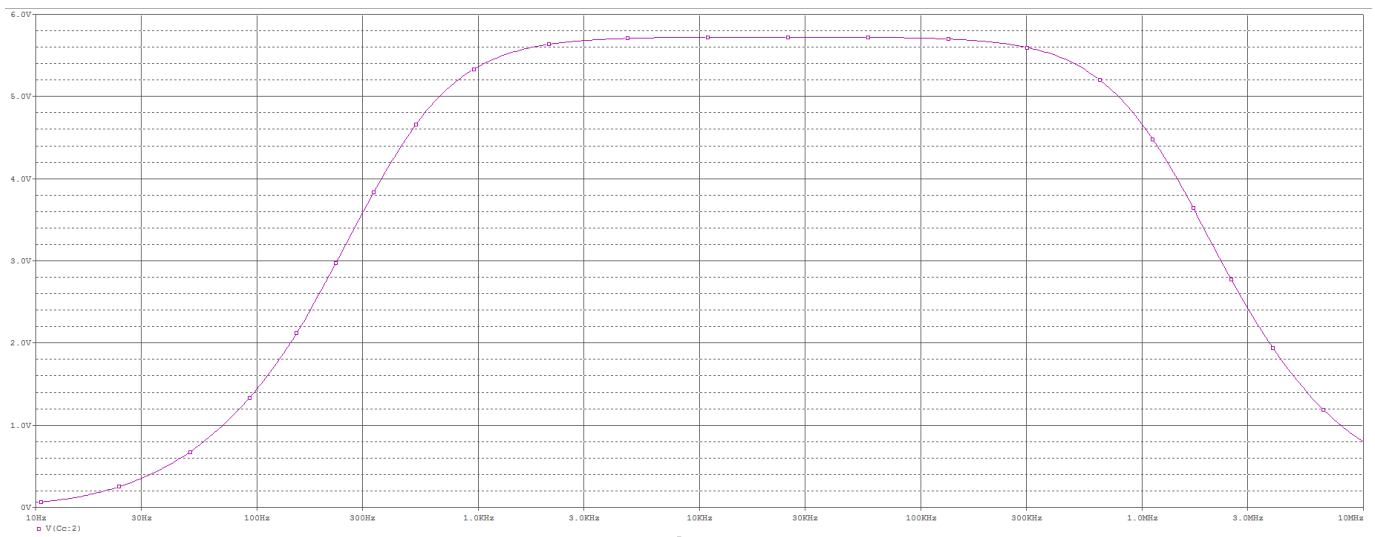
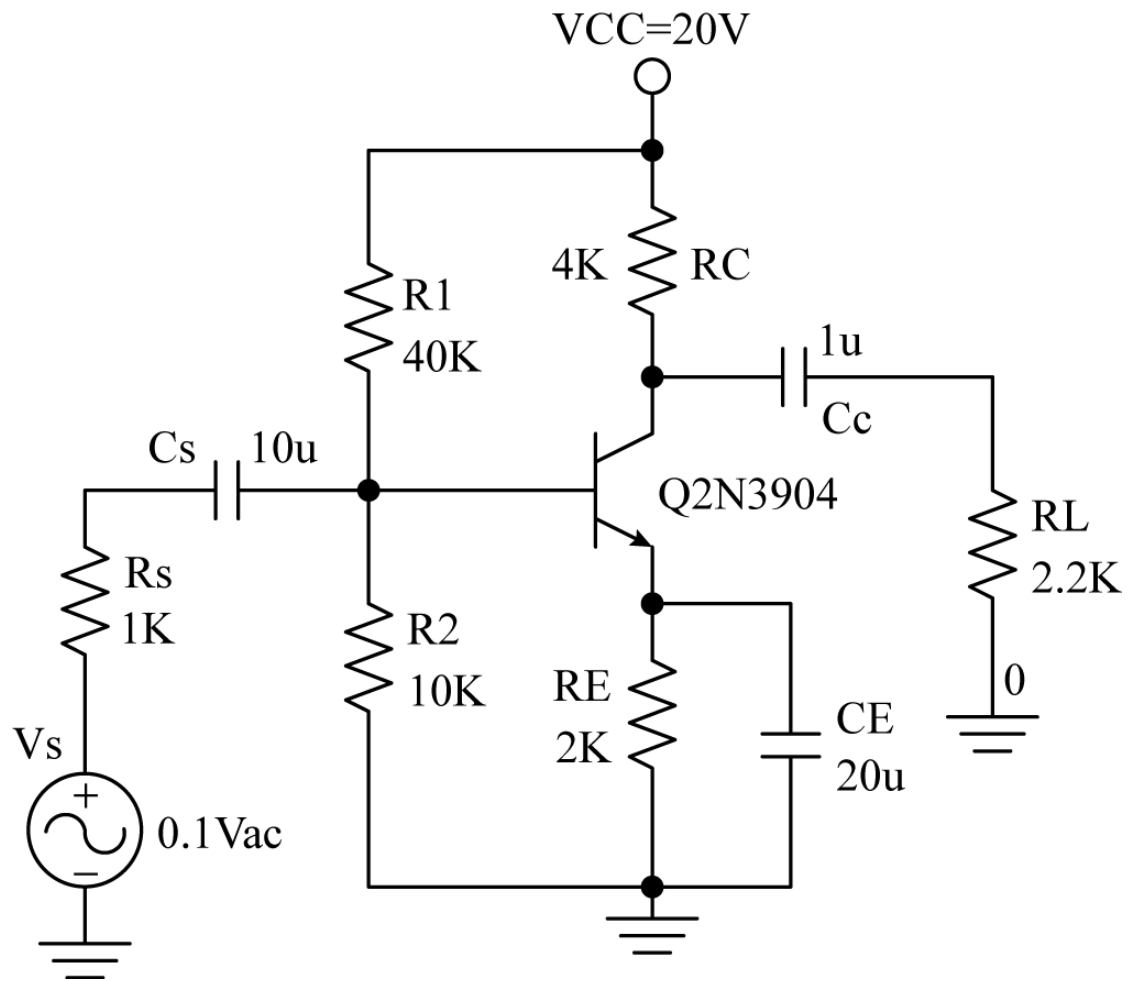
班級： 電 二 乙

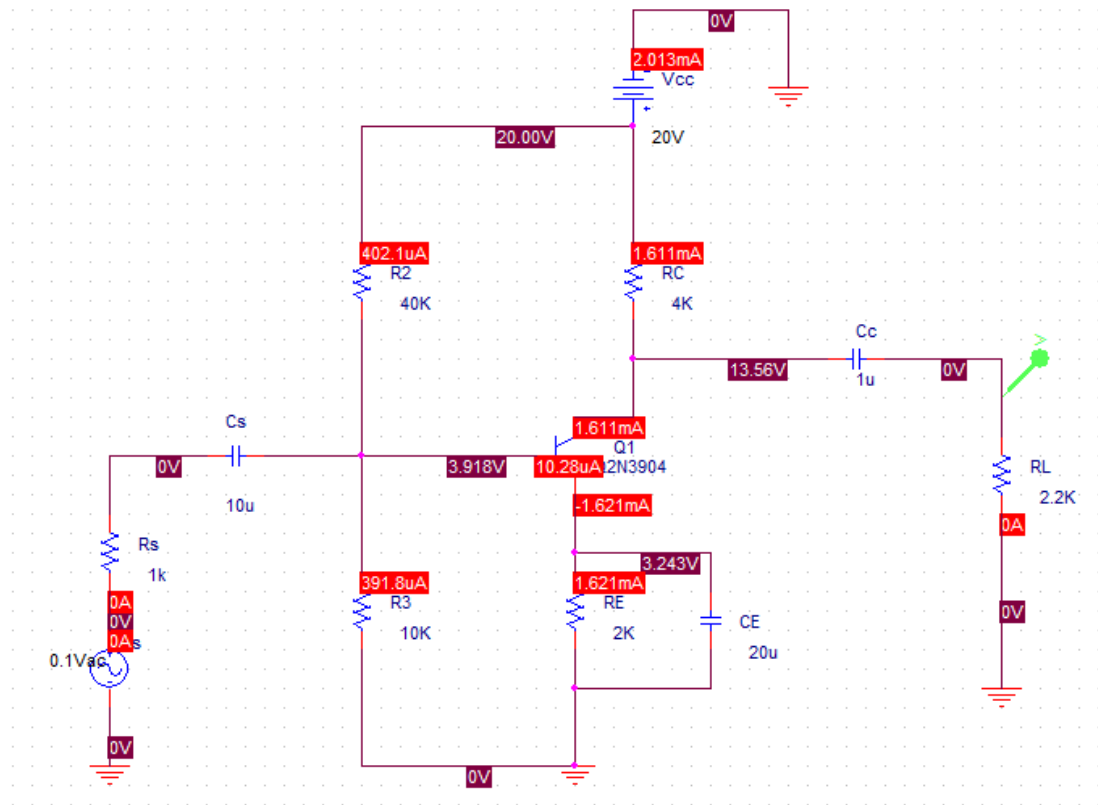
姓名： 蔡承宏

學號： 110510216

老師： 陳俊達

例題 25 頻率響應和頻寬分析





$$V_b = 3.918V \quad V_B = 20 * (10K / 40K + 10K) = 4V$$

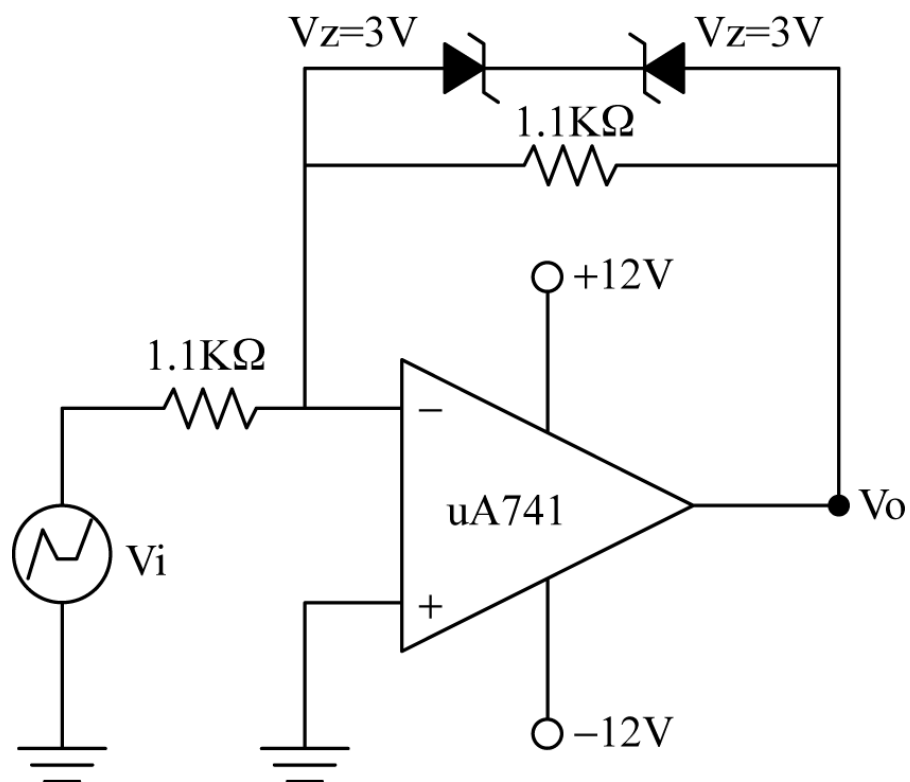
$$I_b = 10.28\mu A \quad I_c = 1.611mA$$

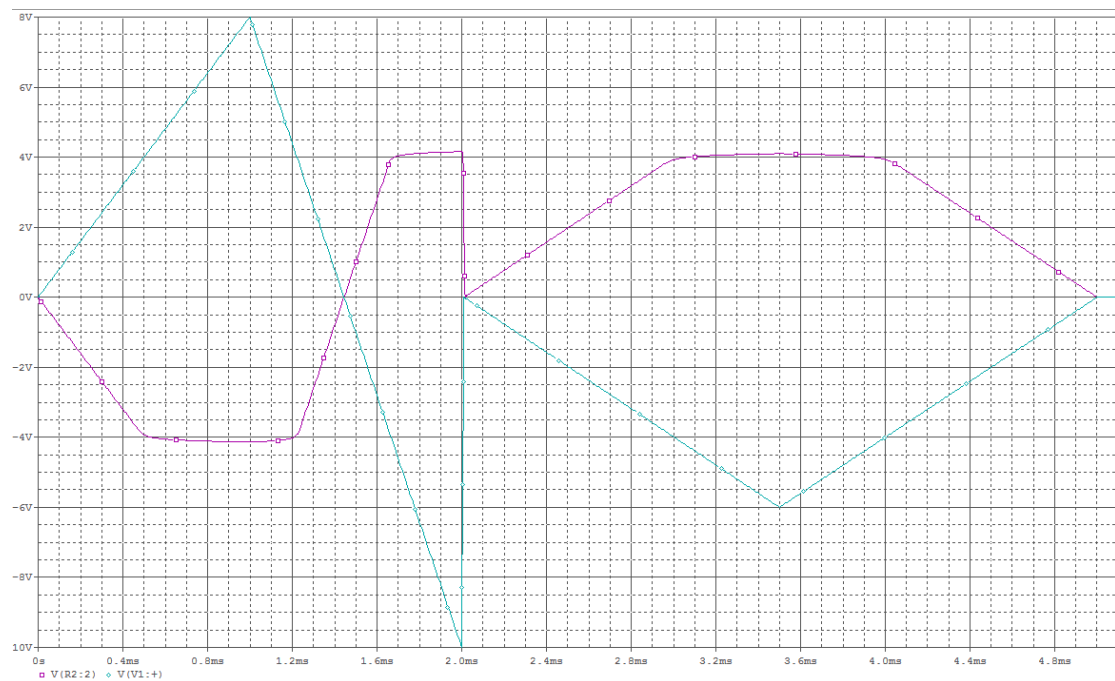
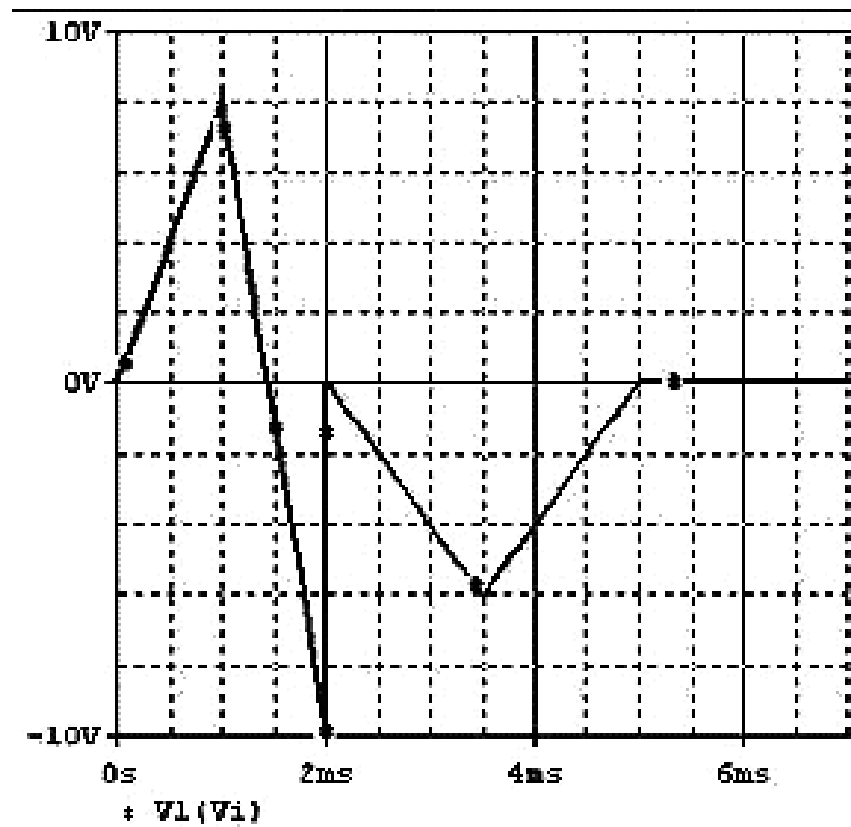
$$B = I_c / I_b = 156.71$$

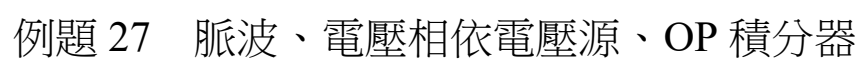
$$V_{CC} = I_C R_C + V_{CE} + I_E R_E$$

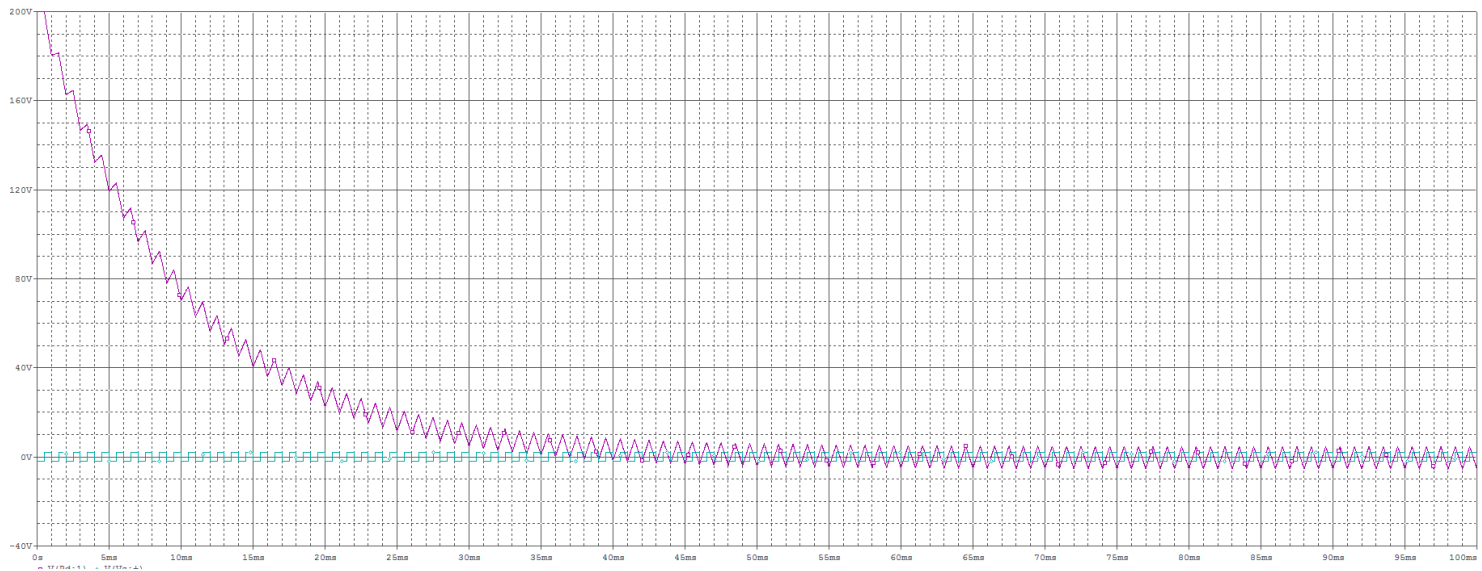
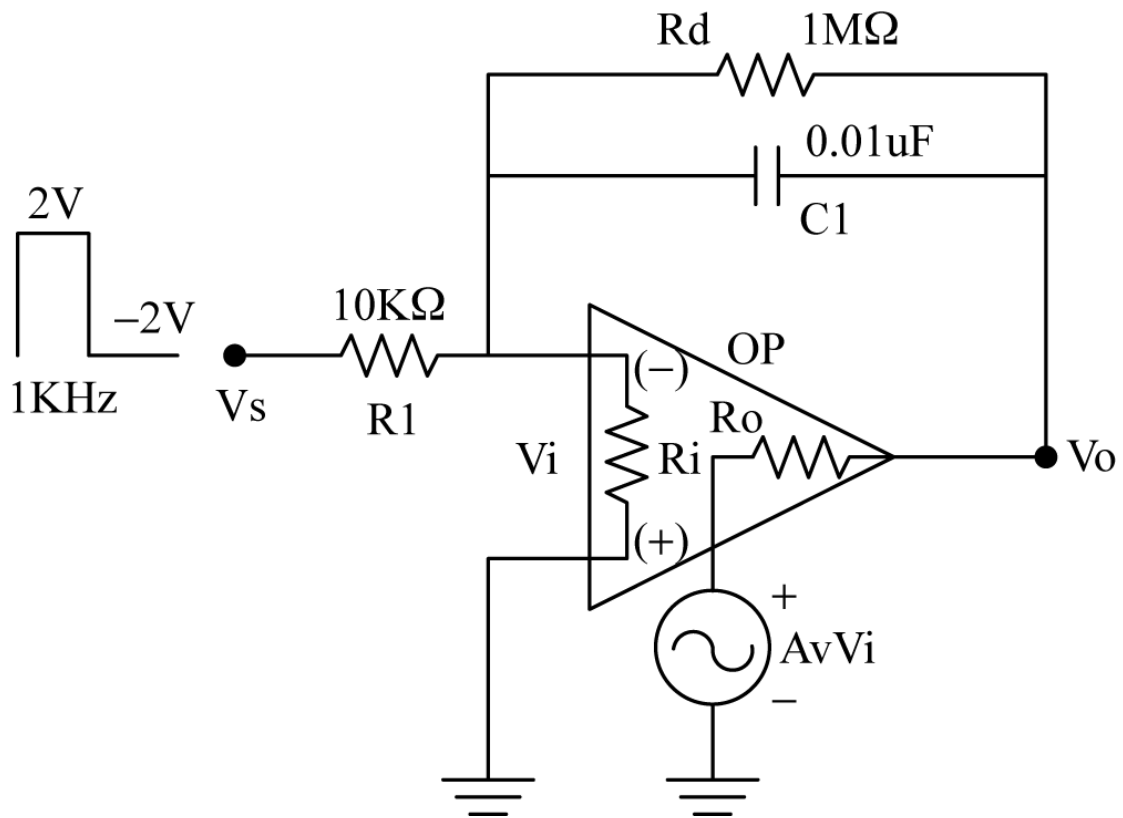
$$V_{CE} = 20 - (1.611 * 4) - 1.621 * 2 = 20 - 6.444 - 3.242 = 10.314V$$

例題 26 折線波、齊納二極體、OP 運算放大器

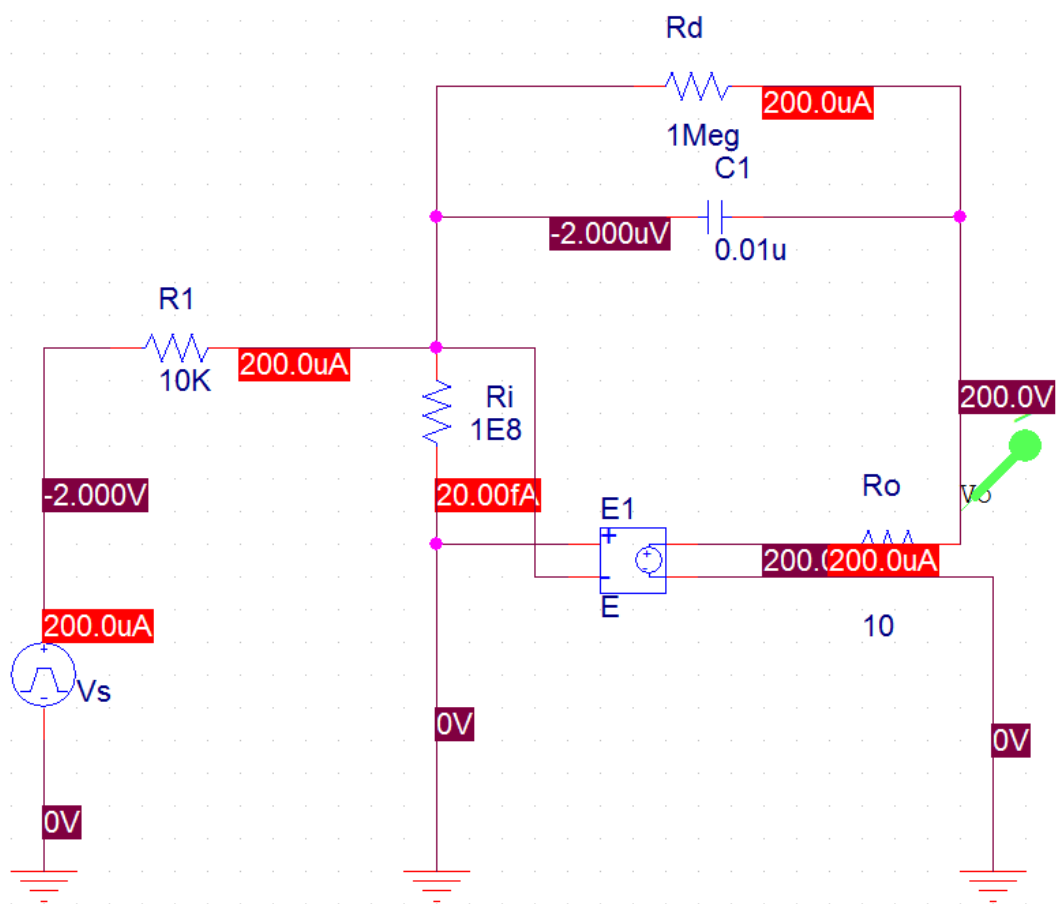








$V1 = -2$
 $V2 = 2$
 $TD = 0.5m$
 $TR = 1\mu$
 $TF = 1\mu$
 $PW = 0.5m$
 $PER = 1m$



例題 28 場效體 JFET 的 I-V 特性曲線與巢狀掃描

