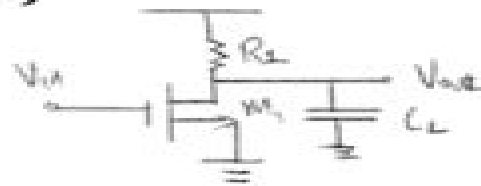


D)



$$R_1 = 1 \text{ k}\Omega$$

$$C_2 = 1 \text{ pF}$$

$$V_{out} = -g_m R_1 \parallel \frac{1}{C_2 s} V_{in} \Rightarrow \frac{V_{out}}{V_{in}} = -g_m R_1 \parallel \frac{1}{C_2 s}$$

$$\frac{V_{out}}{V_{in}} = -g_m \left( \frac{R_1}{R_1 C_2 s + 1} \right), \quad s \rightarrow j\omega, \quad \frac{V_{out}}{V_{in}}(j\omega) = -g_m \left( \frac{R_1}{R_1 C_2 j\omega + 1} \right)$$

$$\left| \frac{V_{out}}{V_{in}} \right| = \frac{g_m R_1}{\sqrt{1 + (\omega R_1 C_2)^2}}. \quad \text{Fall by } 10\% = \left| \frac{V_{out}}{V_{in}} \right| = g_m R_1 \cdot 0.9$$

$$\Rightarrow \frac{g_m R_1}{\sqrt{1 + (\omega R_1 C_2)^2}} = g_m R_1 \cdot 0.9 \Rightarrow \omega_{-10\%} = 4.84 \times 10^7 \text{ rad/s}$$

$$2\pi f = 4.84 \times 10^7 \Rightarrow f = \underset{-10\%}{7.708 \times 10^7} \text{ Hz}$$

# Fundamentals Of Microelectronics Solutions Chapter 11

**Ying Liu**



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