



Figure P3.7

SOLUTION:

(a) Find V_{ro}

For both case 1 (Row1) and case 2(Row2), the transistor operates in saturation region, using equation (3.62)

$$I_D(sat) = \frac{k_n}{2} (V_{GS} - V_{ro})^2$$

$$\frac{I_D(Row1)}{I_D(Row2)} = \frac{(4 - V_{ro})^2}{(5 - V_{ro})^2} = \frac{256}{441}$$

$$\frac{4 - V_{ro}}{5 - V_{ro}} = \pm \frac{16}{21}$$

The correct solution is:

$$V_{ro} = 0.8[V]$$

(b) Find mobility

$$C_{ox} = \frac{\epsilon_{ox}}{t_{ox}} = \frac{3.9 \times 8.85 \times 10^{-14}}{345 \times 10^{-8}} = 1.0 \times 10^{-7} [F/cm]$$

$$256 \times 10^{-6} = \frac{1}{2} \mu_n C_{ox} \frac{W}{L} (4 - V_{ro})^2$$

$$\mu_n = \frac{2 \times 256 \times 10^{-6}}{1.0 \times 10^{-7} \times 1.0 \times 3.2^2} = 500 [cm^2/V \cdot s]$$

(c) Find body effect coefficient γ

Using either Row 3 or Row4 data and equation (3.62), first find V_T

$$144 \times 10^{-6} = \frac{1}{2} \mu_n C_{ox} \frac{W}{L} (4 - V_T)^2$$

$$V_T = 1.6[V]$$

from equation (3.64)

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Jicheng Xie



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