

**Solution Manual for CMOS Digital Integrated Circuits
Analysis and Design 4th Edition Kang Leblebici Kim
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Exercise Problems

3.1 Consider a MOS system with the following parameters:

$$\begin{aligned}t_{ox} &= 1.6 \text{ nm} \\ \alpha_C &= 1.04 \text{ V} \\ N_A &= 2.8 \cdot 10^{18} \text{ cm}^{-3} \\ Q_{ox} &= 9.4 \cdot 10^{-10} \text{ C/cm}^2\end{aligned}$$

a. Determine the threshold voltage V_T under zero bias at room temperature ($T = 300 \text{ K}$).

Note that $\alpha_s = 3.97 \text{ } \text{\AA}$ and $\alpha_l = 11.7 \text{ } \text{\AA}$.

SOLUTION:

First, calculate the Fermi potentials for the p-type substrate and for the n-type polysilicon gate:

$$F(\text{substrate}) = \ln \frac{N_A}{N_s} = \frac{kT}{q} \ln \frac{n_l}{n_s} = \frac{0.026 \text{ V}}{9.4 \cdot 10^{-10} \text{ C/cm}^2} \ln \frac{11.7 \text{ } \text{\AA}}{3.97 \text{ } \text{\AA}} = 0.49 \text{ V}$$

The depletion region charge density at $V_{SG} = 0$ is found as follows:

$$Q_{D0} = \frac{\sqrt{2qN_A(\alpha_l + 2F(\text{substrate}))}}{\sqrt{2(1.6 \cdot 10^{-10} \text{ C})(2.8 \cdot 10^{18} \text{ cm}^{-3})(11.7 \cdot 8.85 \cdot 10^{-14} \text{ F/cm}^2)(0.49 + 0.53)}} = 10^{-7} \text{ C/cm}^2$$

The oxide-interface charge is:

$$Q_{ox} = qN_{ox} = 1.6 \cdot 10^{-10} \text{ C} \cdot 4 \cdot 10^{10} \text{ cm}^{-2} = 6.4 \cdot 10^{-9} \text{ C/cm}^2$$

The gate oxide capacitance per unit area is calculated using the dielectric constant of silicon dioxide and the oxide thickness t_{ox} :

$$C_{ox} = \frac{\epsilon_0 \cdot 3.97 \cdot 8.85 \cdot 10^{-12} \text{ F/cm}^2}{t_{ox}} = \frac{2.2 \cdot 10^{-6} \text{ F/cm}^2}{1.6 \cdot 10^{-7} \text{ cm}}$$

Now, we can combine all components and calculate the threshold voltage.

Solution Manual Digital Integrated Circuits

**Dale R Patrick, Stephen W. Fardo, Ray
E. Richardson, Vigyan (Vigs) Chandra**

Solution Manual Digital Integrated Circuits:

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Chandra,2023-05-26 Devices and Circuit Fundamentals is Chapter Outline Learning Objectives Key Terms Figure List Chapter Summary Formulas Answers to Examples Self Exams Glossary of Terms defined

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