

$$C_{\text{gate}} = \sqrt{\frac{\epsilon_0 \epsilon_{\text{Si}} N_A \text{Si} N_D - 1}{2 N_A \text{Si} N_D}} \cdot \frac{11.7 \cdot 8.85 \cdot 10^{-14} \text{ F/cm} \cdot 1.6 \cdot 10^{19}}{2} \cdot \frac{2.4 \cdot 10^{15} \cdot 10^{19}}{2.4 \cdot 10^{15} \cdot 10^{19}} \cdot \frac{1}{1.02 \text{ V}}$$

$$= 39.6 \cdot 10^8 \text{ F/cm}^2$$

$$C_{\text{gate}} (V) = \frac{P \cdot X \cdot C_{\text{gate}}}{\sqrt{1 - \frac{V}{V_{\text{th}}}}} = \frac{2175 \cdot 400 \cdot 10^7 \cdot 32 \cdot 10^7 \cdot 39.6 \cdot 10^8}{\sqrt{1 - \frac{V}{V_{\text{th}}}}}$$

$$= \frac{1.77 \cdot 10^{14}}{\sqrt{1 - \frac{V}{V_{\text{th}}}}} \text{ F}$$

$$C_{\text{gate}} (1.2 \text{ V}) = \frac{1.77 \cdot 10^{14}}{\sqrt{1 - \frac{1.2}{1.02}}} = 12 \cdot 10^{11} \text{ F}$$

$$C_{\text{gate}} (0.6 \text{ V}) = \frac{1.77 \cdot 10^{14}}{\sqrt{1 - \frac{0.6}{1.02}}} = 14 \cdot 10^{11} \text{ F}$$

$$\langle C_{\text{gate}} \rangle_{1.2 \text{ V}} = C_{\text{gate}} (1.2 \text{ V}) = 12 \cdot 10^{11} \text{ F}$$

$$\langle C_{\text{gate}} \rangle_{0.6 \text{ V}} = C_{\text{gate}} (0.6 \text{ V}) = 14 \cdot 10^{11} \text{ F}$$

$$(b)$$

$$C_{\text{gate}} = \frac{\epsilon_0 \epsilon_{\text{Si}} N_A \text{Si} N_D - 1}{2 N_A \text{Si} N_D} \cdot \frac{11.7 \cdot 8.85 \cdot 10^{-14}}{18 \cdot 10^8} \cdot 1.92 \cdot 10^8 \text{ F/cm}^2$$

$$C_{\text{gate}} = \frac{1.92 \cdot 10^8}{400 \cdot 10^7} \cdot 0.01 \cdot 10^8 = 0.077 \text{ fF}$$

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