

$$C_{jsw} = \sqrt{\frac{\epsilon_s q N_A \phi_0 N_D}{2 N_A \phi_0 N_D}} \sqrt{\frac{11.7 \cdot 8.85 \cdot 10^{-14} \text{ F/cm} \cdot 1.6 \cdot 10^{19}}{2}} \cdot \frac{2.4 \cdot 10^{15} \cdot 10^{17}}{2.4 \cdot 10^{15} \cdot 10^{17}} \cdot \frac{1}{1.02 \text{ V}}$$

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

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

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

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

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

$$\{C_{jsw}\}_{1.2V} = C_{jsw} (1.2V) = 12 \cdot 10^{11} \text{ fF}$$

$$\{C_{jsw}\}_{0.6V} = C_{jsw} (0.6V) = 14 \cdot 10^{11} \text{ fF}$$

$$(b)$$

$$C_{ox} = \frac{\epsilon_{ox}}{t_{ox}} = \frac{3.9 \cdot 8.85 \cdot 10^{-14}}{18 \cdot 10^8} = 1.92 \cdot 10^6 \text{ F/cm}^2$$

$$C_{ox} = C_{ox} \cdot W \cdot L = 1.92 \cdot 10^6 \cdot 400 \cdot 10^7 \cdot 0.01 \cdot 10^4 = 0.077 \text{ fF}$$

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