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Derivation of the Metal-Semiconductor junction current. 3.5 Metal-Semiconductor contacts.
3.5.1. Ohmic contacts 3.5.2. Tunnel contacts 3.5.3. Annealed and alloyed contacts 3.5.4. Contact resistance to a thin semiconductor layer. 3.6 Metal-Semiconductor Field Effect Transistors (MESFETs) 3.7 Schottky diode with an interfacial layer 3.8 Other unipolar junctions. 3.8.1.

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MOS capacitor with $N_A = 10^{16} \text{ cm}^{-3}$, $d = 10 \text{ nm}$, $V = 1.5 \text{ V}$, $T = 296 \text{ K}$. 7. Turn-on voltage of the MOS from the previous problem was found to be shifted by 0.5 V from the ideal value. Assuming that the shift is due entirely to the fixed oxide charges at the SiO_2 -Si interface, find the number of fixed oxide charges.

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