

Computational Microelectronics

Assignment #5

20174009

Choi Pyeunghwi

1. Electrostatic potential as a function of N^+

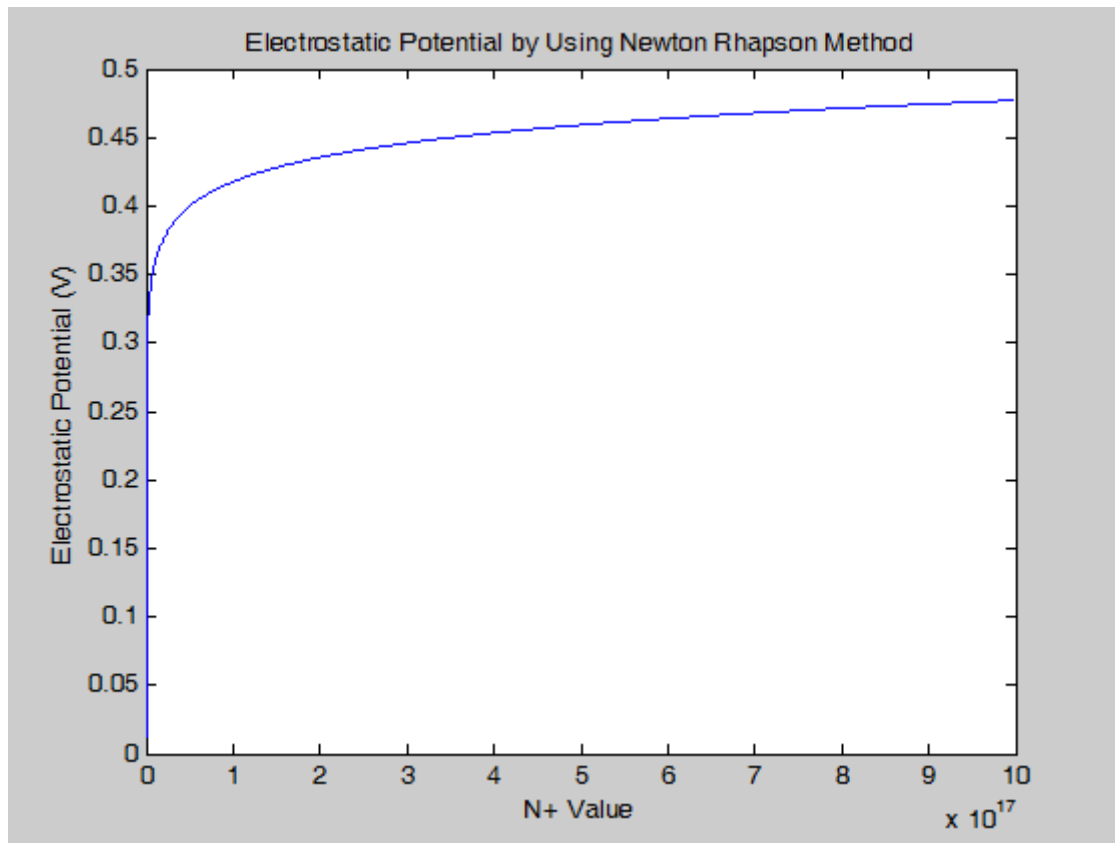
Equation :

$$f(\Phi + \delta\Phi) = 0$$

$$f + \frac{\partial f}{\partial \Phi} \delta\Phi = 0$$

$$\delta\Phi = (-f) / \frac{\partial f}{\partial \Phi}$$

① Electrostatic Potential w/ variable $N^+(10^{10} \sim 10^{18})$



② Electrostatic Potential w/ variable N^+ ($-10^{10} \sim -10^{18}$)

