

Computational Microelectronics Report (Homework #5)

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Major: Electrical Engineering and Computer Science

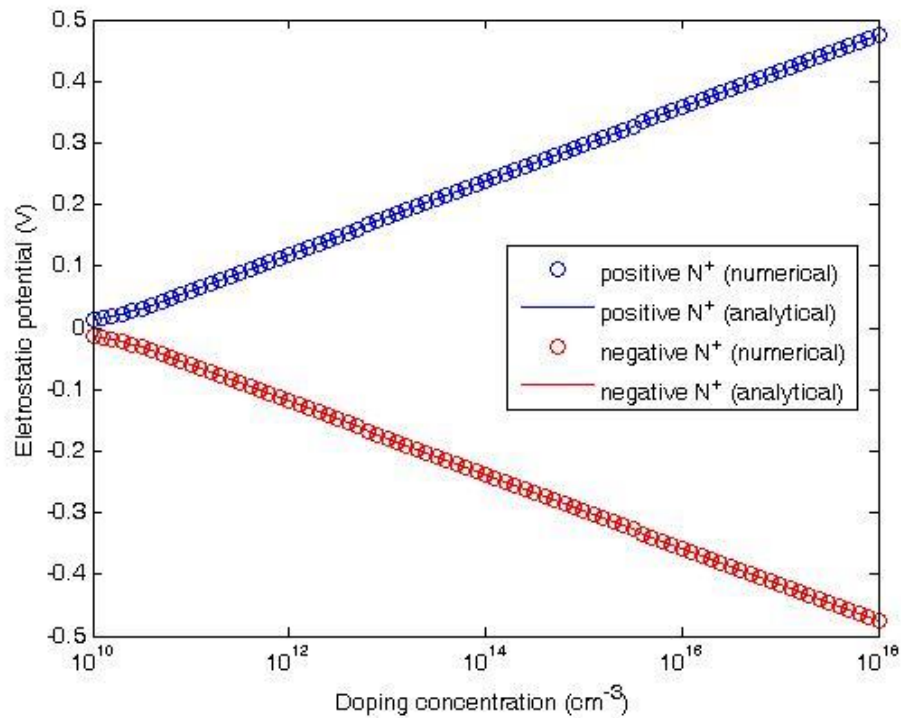
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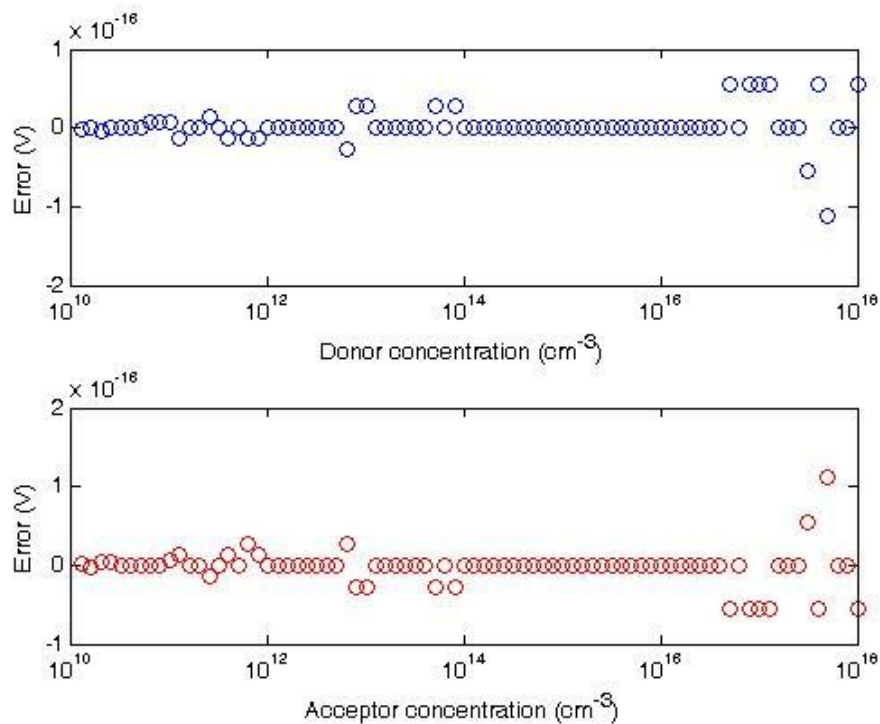
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- Electrostatic potential – Doping density (Positive N+: Donor, Negative N+: Acceptor)
Number of repetition: 1000, Initial value of ϕ : $\pm 1V$



- Difference between numerical solution and analytic solution as a function of dopant density



There is no significant difference between the values obtained through Newton-Raphson method and those obtained through analytic method.