Computational Microelectronics

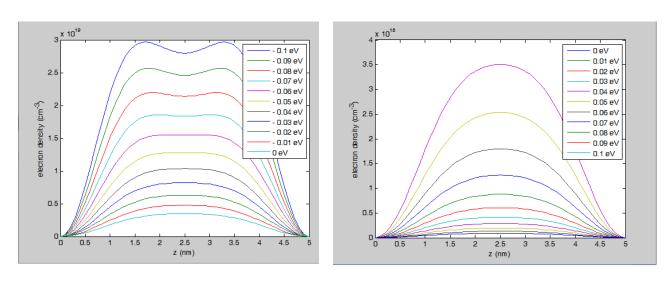
Assignment # 7

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- Electron in a 3D-box

We considered electron in a thin and wide 3D box which has length of $L_x = L_y = 100$ nm and $L_z = 5$ nm and quantum confinement along the only z direction. Considering a subband number, we found that electron density at position and integrated electron density for different fermi energy.

I. Position-dependent electron density



II. Integrated electron density for different fermi energy

