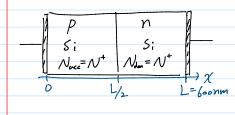
HW/4.

Thursday, October 29, 2020

20/84060 Jicheol Kim



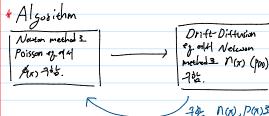
Boundary Condition
$$S: \quad S: \quad S(0) = -V_T \ln \left(\frac{N^+}{n_i}\right)$$

$$V_{cc} = N^+ \quad N_{lm} = N^+ \quad X$$

$$V_{l} = \frac{1}{2} \text{ where } V_T = \frac{1}{2} \text{ where$$

Poisson eq.
$$\nabla \cdot (\xi \nabla g_{(x)}) = -\ell(x) = \begin{cases} 3 \left[N^{4} + 2 \sinh \left(\frac{g}{V_{7}} \right) \right] & 0 < \chi < \frac{1}{2} \\ 2 \xi \sinh \left(\frac{g}{V_{7}} \right) & \chi = \frac{1}{2} \end{cases}$$

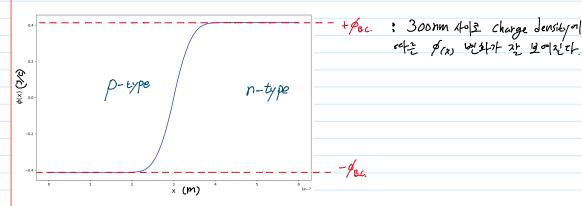
$$\left[2 \left[-N^{4} + 2 \sinh \left(\frac{g}{V_{7}} \right) \right] = \frac{1}{2} \langle \chi \langle L \rangle$$

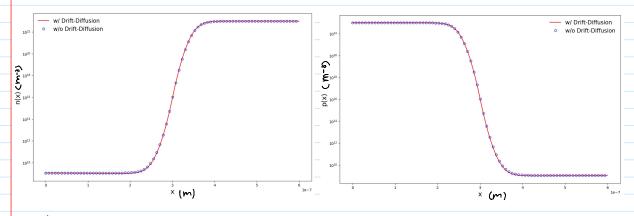


구한 N(x), P(x)3 다시 Poisson eg. update 하이 목 수 있는 矢하다.

Results

N=800=3 discretization, T=300K, &= 11.780, Nx=1.075 x1016 m-3





Drift-Diffusion eq. Ital 277+4 Drift-Diffusion eq. 없이 구한 결과 사이 차이가 거의 있다.