

Fabrication and Modeling of P-N Junctions

Objective: Discussion of approximations in model building

Outline:

1. Depletion approximation
2. Elements of fabrication
3. Diffusion of dopant atoms
4. Implantation of ionized dopants
5. Prototypical doping profiles
6. Modeling of Linearly graded junctions

Reading: 5.4.2