

ENEE 408D  
Spring 2003  
Homework 2  
Due Feb. 18, 2003

Read Chp. 2 and 3 in Baker, Li and Boyce.  
Do the following problems from (BLB).

1. 2.3
2. 2.7
3. 2.10 (You don't have to verify with SPICE.)
4. 2.14 (You don't have to verify with SPICE.)
5. For a PN junction with uniform doping of  $N_A = 10^{17}/cm^3$  and  $N_D = 10^{17}/cm^3$ , calculate the built-in potential, width of the depletion region, and the junction capacitance.