

COURSE WEBSITE: <http://cobweb.ecn.purdue.edu/~ee255/>

- 1) Text problem 2.12, page 69
- 2) Text problem 2.27, page 70
- 3) Text problem 2.30, page 70
- 4) Text problem 3.21, page 134
- 5) Based on the information in figure P 3.21, page 134, develop a D.C. diode model which will be exact at  $100\ \mu\text{A}$  and very accurate in the neighborhood of  $100\ \mu\text{A}$ . Show your method of solution (including calculations) and the resulting values for  $V_0$  and  $R_0$ .
- 6) Text problem 3.52, page 136
- 7) Text problem 3.56, page 136
- 8) Text problem 3.66, page 137
- 9) Text problem 3.69, page 137
- 10) Continue Text problem 3.69, page 137 – (c) Repeat using a diode model with  $V_0 = 0.6\ \text{V}$  and  $R_0 = 200\ \Omega$ .