Homework Set 4
EECE2412: Electronics– Fall 2014
Due Wednesday, 2 Oct 2024

Prof. Charles A. DiMarzio

25 September 2024

File: 12521/hw4.tex

1 Diode Physics

Solve Problem 3.72 in the Text (Hambley).

2 Temperature Effects

Solve Problem 3.4 in the Text (Hambley).

3 Diode Characteristics

Solve Problem 3.2 in the Text (Hambley). Use Matlab or other software to produce a quantitative plot. Make realistic asssumptions, and plot for currents up to 10 mA.

4 Shockley Equation

Solve Problem 3.77 in the Text (Hambley)

5 Shockley Equation Again

Solve Problem 3.80 in the Text (Hambley)