

Homework 4

EE 362 Electronic, Magnetic, & Optical Properties of Materials (Spring 2024)

Wednesday, February 14, 2024

- 1) 4.1c Also, find N_c , N_v , and $k_B T$ at each temperature.
- 2) 4.11 Hint: Table 4.1.
- 3) 4.18 First, find N_c and N_v .
- 4) 4.22
- 5) 4.34ab
- 6) 4.39
- 7) 4.48
- 8) 4.56

Due Wednesday, February 21, 2024.

Notes:

- Carry *at least* 6 significant figures on constants/parameters in calculations. Give answers with 4-5 significant figures.
- Assume 300 K unless otherwise specified.