Homework 4

EE 362 Electronic, Magnetic, & Optical Properties of Materials (Spring 2025) Friday, February 21, 2025

- 1) 4.1a Also, find N_c , N_v , and k_BT at each temperature.
- 2) 4.10 Hint: Table 4.1 or Table B.4.
- 3) 4.19 First, find N_c and N_v .
- 4) 4.23a
- 5) 4.34ad
- 6) 4.46
- 7) 4.49
- 8) 4.56

Due Wednesday, February 26, 2025

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.