

Assignment #2: Semiconductors

(due to Wednesday, Feb. 13, 2017)

- 1) Work through the lecture notes: Thermodynamics & Phase diagrams
- 2) Which symmetry element is found on $\langle 110 \rangle$ directions in fcc materials?
- 3) What thermodynamic quantity should we use to predict whether or not a reaction will occur?

- 4) Look at the phase diagram of GaN. If you have 40% Ga and 60% N at 900K and 1atm pressure, which phases do you expect?

