

**Solid state physics 2018      Problem Set #2. Due Mar.21**

1. A beam of X-rays incident on a sodium chloride crystal. The first order Bragg reflection is observed at a glancing angle of  $8^{\circ}35'$ . What is the wave length of X-rays? At what angles would the second and third order Bragg's reflections occur?
2. Kittel, Chap. 2. Problem 1
3. Kittel, Chap. 2. Problem 3
4. Kittel, Chap. 2. Problem 5
5. Kittel, Chap. 2. Problem 6
6. Kittel, Chap. 2. Problem 7