
PROBLEM SET 4

Reading: Ashcroft and Mermin (AM) Chapters 5 and 6

1. AM Problem 5.2

Note:

- (a) The statement in Ashcroft and Mermin about the rotation of the axes (in 5.2a) is not quite accurate (if we use the convention of their Eqn. (5.3)). What is the correct statement?
- (b) In part (b), “ideal” means “ideal for the hcp structure”.
- (c) In part (c), you need not derive the value of a^* .

2. AM Problem 6.1

3. AM Problem 6.5