Assignment 1

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Unit 2 - Week 1. Lattice, Crystal structures, Miller indices for planes and directions

1. What is the meaning of the highest Brillouin zone?

2. What does the following graph show about the crystal structure?

3. Which of the following provides information about the number and arrangement of atoms in the unit cell?

4. What is the significance of the Miller indices?

5. Which of the following information is correct?

6. Which of the following is true about Miller indices?

7. Which of the following statements is incorrect?

8. Which of the following is true about Miller indices?

9. What is the Miller index of the plane shown in the diagram?

10. Identify the crystal structure from the following diffraction pattern obtained from X-ray diffraction.

11. What is the relationship between Miller indices and the lattice?

12. What is the Miller index of the plane shown in the diagram?

13. What is the relationship between Miller indices and the lattice?

14. Identify the Miller indices of the plane shown in the diagram.

15. Which of the following statements is true about Miller indices?

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