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NPTEL

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Courses » Symmetry and Structure in the Solid State

Announcements **Course** Ask a Question Progress FAQ

Unit 2 - Basics of Symmetry 1 : Generation of Point Groups

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Course outline

How to access the portal

Basics of Symmetry 1 : Generation of Point Groups

- Symmetry in 3D World
- Two Fold Axis Representation with the Help of Esher Diagrams
- Pure Rotation Axes
- Properties of Crystal
- Point Group Generation
- Quiz : Week 1- Assignment 1

Basics of Symmetry 2: Detailed Understanding of 32 Point Groups

Assignment of

Week 1- Assignment 1

The due date for submitting this assignment has passed.

Due on 2019-02-13, 23:59 IST.

Assignment submitted on 2019-02-08, 13:45 IST

Assignments for week1.

1) Identify the symmetry elements in the figures given below. ***2 points***

- 2 fold
- 21 screw
- 1 fold
- NOTA

No, the answer is incorrect.
Score: 0

Accepted Answers:
2 fold

2) Identify the symmetry elements in the figures given below. **2 points**

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Description And Introduction to the International Tables of Crystallography(ITC-Vol. A).

Correlation Between Symmetry Diagrams and Equivalent Point Diagrams.

Special Positions and Introduction to Wyckoff Notations.

Interaction Session

Text Transcripts

Basics of X Ray Diffraction 1

Basics of X Ray Diffraction 2

Bragg's Law in Reciprocal Space

Structure Determination Methodologies 1

Structure Determination Methodologies 2

Powder Diffraction Method & Quantum Crystallography

- *31* screw
- *21* screw
- Translation
- 3 fold

No, the answer is incorrect.
Score: 0

Accepted Answers:
21 screw

3) Identify the symmetry elements in the figures given below ***2 points***

- Mirror
- *21* screw
- Axial glide
- NOTA

No, the answer is incorrect.
Score: 0

Accepted Answers:
Axial glide

4) Identify the symmetry element from the graphical symbol **2 points**

- 2-fold normal to the projection
- 6-fold normal to the projection
- 3-fold normal to the projection
- NOTA

No, the answer is incorrect.
Score: 0

Accepted Answers:
3-fold normal to the projection

5) Identify the symmetry element from the graphical symbol ◆ **2 points**

- 2-fold normal to the projection
- 3-fold normal to the projection
- 4-fold normal to the projection
- NOTA

No, the answer is incorrect.
Score: 0

Accepted Answers:
4-fold normal to the projection

6) How many total lattice types are possible in two dimensions? **2 points**

- 3
- 7
- 5
- 14

No, the answer is incorrect.
Score: 0

Accepted Answers:
5

7) How many total lattice types are possible in three dimensions? **2 points**

- 9
- 7
- 5
- 14

No, the answer is incorrect.
Score: 0

Accepted Answers:
14

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