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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 3 - Basics of Symmetry 2: Detailed Understanding of 32 Point Groups

Register for Certification exam

Course outline

How to access the portal

Basics of Symmetry 1 : Generation of Point Groups

Basics of Symmetry 2: Detailed Understanding of 32 Point Groups

- Combination of Symmetry Elements
- Arrangement of Symmetry Equivalent Objects
- Introduction to Plane Lattice
- Bravais Lattice
- Details of Stereographic Projections
- Quiz : Week 2-Assessment

Week 2-Assessment 2

The due date for submitting this assignment has passed.

As per our records you have not submitted this assignment. **Due on 2019-02-13, 23:59 IST.**

1) How many equivalent points are there in point group "222"? **2 points**

- 2
 3
 4
 6

No, the answer is incorrect.

Score: 0

Accepted Answers:

4

2) Which Rotational symmetries are not possible? **2 points**

- 5
 3
 7
 4

No, the answer is incorrect.

Score: 0

Accepted Answers:

5

7

3) Identify the crystal system, if the lattice parameters are as follows: **2 points**
 $a = 5.21$, $b = 7.21$, $c = 21.55$, $\alpha = 90$, $\beta = 101.24$, $\gamma = 90$.

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Basics of Symmetry 4: Space Group 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

Score: 0

Accepted Answers:

Monoclinic

4) Identify the 2D point group belongs to the Rectangular lattice. **2 points**

- 4mm
 6mm
 mm2
 2

No, the answer is incorrect.

Score: 0

Accepted Answers:

mm2

5) What are the possible point groups in Tetragonal systems? **2 points**

- 432
 4
 422
 444

No, the answer is incorrect.

Score: 0

Accepted Answers:

4

422

6) Which rotational symmetries are not possible in three-dimensional classes? **2 points**

- 5
 3
 7
 4

No, the answer is incorrect.

Score: 0

Accepted Answers:

5

7

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

- 7
 32
 14
 6

No, the answer is incorrect.

Score: 0

Accepted Answers:

14

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