

X

NPTEL

reviewer4@nptel.iitm.ac.in ▼

Courses » Symmetry and Structure in the Solid State

Announcements Course Ask a Question Progress FAQ

Unit 4 - Assignment of Point Groups to Crystal Systems and Bravais Lattice

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

Assignment of
Point Groups to
Crystal Systems
and Bravais
Lattice

Stereographic
Projections
Continued

Point Group
and Crystal
Systems 1

Point Group
and Crystal
Systems 2

Point Groups to
Space Groups

Translations in

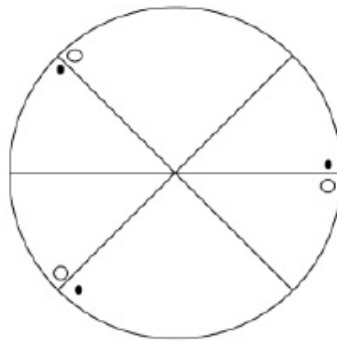
Week 3- Assignment 3

The due date for submitting this assignment has passed.

As per our records you have not submitted this assignment. **Due on 2019-02-20, 23:59 IST.**

1) Identify the point group from the stereographic projection

2 points



- 32
 -1
 -3
 222

No, the answer is incorrect.

Score: 0

Accepted Answers:

32

2) Identify the symmetry element from the figure

2 points

© 2014 NPTEL - Privacy & Terms - Honor Code - FAQs -

A project of



In association with



Funded by

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

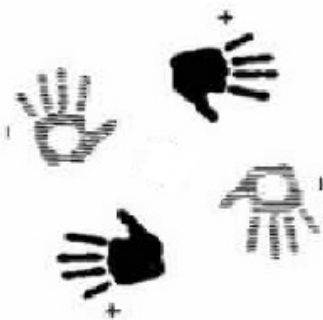
Basics of X Ray
Diffraction 2

Bragg's Law in
Reciprocal
Space

Structure
Determination
Methodologies 1

Structure
Determination
Methodologies 2

Powder
Diffraction
Method &
Quantum
Crystallography



- 4
 2/m
 -4
 4/m

No, the answer is incorrect.

Score: 0

Accepted Answers:

-4

3) Number of possible point groups in trigonal crystal system

2 points

- 4
 2
 3
 5

No, the answer is incorrect.

Score: 0

Accepted Answers:

5

4) Identify the non Centro-symmetric point group

2 points

- m
 4/m
 -3
 -3/m

No, the answer is incorrect.

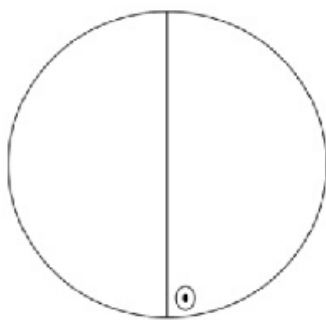
Score: 0

Accepted Answers:

m

5) Identify the point group from the stereographic projection

2 points



- 1
 1
 -2
 2

No, the answer is incorrect.

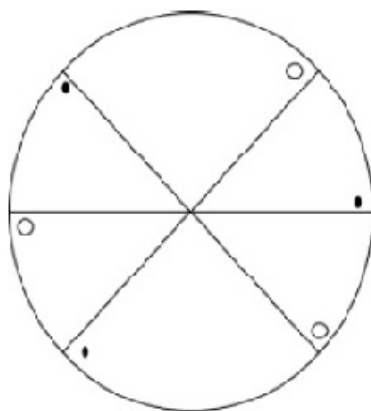
Score: 0

Accepted Answers:

-2

6) Identify the point group from the stereographic projection

2 points



- 3
 3/m
 622
 6/mmm

No, the answer is incorrect.

Score: 0

Accepted Answers:

-3

7) Identify the point group from combination of three mirrors at 90 degrees to each others

2 points

- 3m
 6mm
 mmm
 6/mmm

No, the answer is incorrect.

Score: 0

Accepted Answers:

mmm

◀ Previous Page

End ▶

