Progress

NPTEL » Foundations of Computational Materials Modelling

Mentor

1 point

Unit 8 - Week 3

How does an NPTEL online

Course outline

MATLAB_SCRIPTS

LAMMPS_SCRIPTS

Installation_Procedure

Symmetry of space groups

Hernann maugin symbols of

Translational symmetry

Week 3 lecture materials

Foundations of Computational

Quiz : Assignment 3

Week 3 Feedback :

Materials Modelling

space groups

operators

Week 4

Week 5

Week 6

Week 7

Week 8

Week 9

Week 10

Week 11

Week 12

Additional Documents

Download videos

Text Transcripts

course work?

MATLAB

Week 1

Week 2

Week 3

The due date for submitting this assignment has passed. As per our records you have not submitted this assignment.	Due on 2020-02-19, 23
How many point groups are there in 3D?	
O 20	
O 32	
O 45	
O 36	
No, the answer is incorrect. Score: 0	
Accepted Answers:	
32	
2) The symmetry element(s) of the monoclinic P lattice can be written as	
○ 2m	
<u>2</u>	
<i>m</i> ○ m	
O m	
4 ₂	
No, the answer is incorrect.	
Score: 0	
Accepted Answers: 2	
\overline{m}	
3) Fill in the blanks:	
The symmetry operation relates pairs of points or objects which are equidistant from and of	on opposite sides of a central point.
(Type: String) 1 bar (Type: String) mirror	
Objects are said to be equivalent to one another if they can be brought into coincidence by the appli	lication of a symmetry operation
	notation of a symmotry operation.
O True	
○ False	
No, the answer is incorrect. Score: 0	
Accepted Answers: True	
Hermann-Mauguin symbols are oriented symbols giving the symmetry operations or symmetry elem	nents of
point group	
inversion	
space group	
none	
No, the answer is incorrect. Score: 0	
Accepted Answers:	
point group	
space group	
 Only rotoinversion axes of even order imply the presence of an inversion center. 	
O-	
○ True	
○ True ○ False	
O False No, the answer is incorrect.	
O False No, the answer is incorrect. Score: 0	
No, the answer is incorrect. Score: 0 Accepted Answers:	
No, the answer is incorrect. Score: 0 Accepted Answers: False	
No, the answer is incorrect. Score: 0 Accepted Answers: False 7) Glide planes can exist only in locations where there are mirror planes.	
No, the answer is incorrect. Score: 0 Accepted Answers: False 7) Glide planes can exist only in locations where there are mirror planes. True	
No, the answer is incorrect. Score: 0 Accepted Answers: False 7) Glide planes can exist only in locations where there are mirror planes.	

