Unit 6 - Week 1

Course outline

MATLAB_SCRIPTS

LAMMPS_SCRIPTS

Installation_Procedure

Introduction to the course

Some applications of MD

and constructing simple crystals with MATLAB

Introduction to symmetry - 1

Lecture materials for week 1

Computational Materials

Symmetry Elements - 1

O Quiz: Assignment 1

 Week 1 Feedback :Foundations of

Modelling

Week 2

Week 3

Week 4

Week 5

Week 6

Week 7

Week 8

Week 9

Week 10

Week 11

Week 12

Additional Documents

Download videos

Text Transcripts

Introduction to Bravais lattices

simulations

course work?

MATLAB

Week 1

How does an NPTEL online

| As per our rec | for submitting this assignment has passed. ords you have not submitted this assignment. | Due |
|---|---|-------|
| 1) How many | Bravais Lattice are there in 3D? | |
| O 10 | | |
| 0 12 | | |
| O 14 | | |
| 8 | | |
| No, the answe Score: 0 | r is incorrect. | |
| Accepted Ans | wers: | |
| 2) Fill in the b | lanks: | |
| is a | n infinite array of discrete points with an arrangement and orientation that appears exactly the same fro | m any |
| | | |
| No, the answer | r is incorrect. | |
| Score: 0 Accepted Ans | wers: | |
| String starting | with: Bravais Lattice | |
| String starting | with: BravaisLattice | |
| | | |
| 3) Fill in the b | lanks: | |
| is the s | et of operations including translations that leave the crystal as it is. | |
| | | |
| | | |
| No, the answe | r is incorrect. | |
| Score: 0 | | |
| Score: 0 Accepted Ans | | |
| Accepted Ans String starting | wers: with: Space group | |
| Accepted Ans String starting | wers: | |
| Accepted Ans String starting String starting | wers: with: Space group | |
| Accepted Ans String starting String starting 4) A crystal is | wers: with: Space group with: Spacegroup | |
| Accepted Ans String starting String starting 4) A crystal is True | wers: with: Space group with: Spacegroup | |
| Accepted Ans String starting String starting 4) A crystal is True False | wers: with: Space group with: Spacegroup a combination of lattice and basis. | |
| Accepted Ans String starting String starting 4) A crystal is True | wers: with: Space group with: Spacegroup a combination of lattice and basis. | |
| Accepted Ans String starting String starting 4) A crystal is True False No, the answer | wers: with: Space group with: Spacegroup a combination of lattice and basis. | |
| Accepted Ans String starting String starting 4) A crystal is True False No, the answer Score: 0 Accepted Ans True | wers: with: Space group with: Spacegroup a combination of lattice and basis. | |
| Accepted Ans String starting String starting 4) A crystal is True False No, the answer Score: 0 Accepted Ans True | wers: with: Space group with: Spacegroup a combination of lattice and basis. r is incorrect. wers: | |
| Accepted Ans String starting String starting 4) A crystal is True False No, the answer Score: 0 Accepted Ans True 5) Orthorhom | wers: with: Space group with: Spacegroup a combination of lattice and basis. r is incorrect. wers: | |
| Accepted Ans String starting String starting 4) A crystal is True False No, the answe Score: 0 Accepted Ans True 5) Orthorhom | wers: with: Space group with: Spacegroup a combination of lattice and basis. r is incorrect. wers: bic bravais lattice has the following: $a \neq b = c$ and $\alpha = \beta = \gamma = 90^\circ$ | |
| Accepted Ans String starting String starting 4) A crystal is True False No, the answer Score: 0 Accepted Ans True 5) Orthorhom True False No, the answer Score: 0 No, the answer Score: 0 | wers: with: Space group with: Spacegroup a combination of lattice and basis. r is incorrect. wers: bic bravais lattice has the following: $a \neq b = c$ and $\alpha = \beta = \gamma = 90^\circ$ r is incorrect. | |
| Accepted Ans String starting String starting 4) A crystal is True False No, the answer Score: 0 Accepted Ans True 5) Orthorhom True False No, the answer Score: 0 Accepted Answer Score: 0 | wers: with: Space group with: Spacegroup a combination of lattice and basis. r is incorrect. wers: bic bravais lattice has the following: $a \neq b = c$ and $\alpha = \beta = \gamma = 90^\circ$ r is incorrect. | |
| Accepted Ans String starting String starting 4) A crystal is True False No, the answer Score: 0 Accepted Ans True 5) Orthorhom True False No, the answer Score: 0 Accepted Answer Score: 0 | wers: with: $Space\ group$ with: $Space\ group$ a combination of lattice and basis. r is incorrect. wers: bic bravais lattice has the following: $a \neq b = c$ and $\alpha = \beta = \gamma = 90^\circ$ r is incorrect. wers: | |
| Accepted Ans String starting String starting 4) A crystal is True False No, the answer Score: 0 Accepted Ans True 5) Orthorhom True False No, the answer Score: 0 Accepted Ans False 6) Penrose-ti | wers: with: $Space\ group$ with: $Space\ group$ a combination of lattice and basis. r is incorrect. wers: bic bravais lattice has the following: $a \neq b = c$ and $\alpha = \beta = \gamma = 90^\circ$ r is incorrect. wers: | |
| Accepted Ans String starting String starting 4) A crystal is True False No, the answer Score: 0 Accepted Ans True 5) Orthorhom True False No, the answer Score: 0 Accepted Ans False No, the answer Score: 0 Accepted Ans False 6) Penrose-time False False | wers: with: Space group with: Spacegroup a combination of lattice and basis. | |
| Accepted Ans String starting String starting 4) A crystal is True False No, the answer Score: 0 Accepted Ans True 5) Orthorhom True False No, the answer Score: 0 Accepted Ans False 6) Penrose-ti | wers: with: Space group with: Spacegroup a combination of lattice and basis. | |

