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NPTEL

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Courses » Phase field modelling: the materials science, mathematics and computational aspects

Announcements Course Ask a Question Progress Mentor FAQ

Unit 1 - How to access the portal ?

Course outline

How to access the portal ?

- How to access the home page?
- How to access the course page?
- How to access the MCQ, MSQ and Programming assignments ?
- Assignment 0- Subjective
- Quiz : Assignment 0

Week-1

Week 2

Week 3

Week 4

Week 5

Week 6

Week 7

Week 8

Assignment 0

The due date for submitting this assignment has passed.

As per our records you have not submitted this assignment. **Due on 2018-07-30, 23:59 IST.**

1) The basic equation used to calculate the configurational entropy of a binary substitutional solid solution is (k : Boltzmann constant, w : number of configuration, H : Enthalpy and R : gas constant):

 H

 $klnw$
 RT

 0

No, the answer is incorrect.

Score: 0

Accepted Answers:

$klnw$

2) The number of ways of arranging 6 Copper atoms and 2 aluminium atoms on 8 lattice sites and 8 copper atoms on 8 lattices are _____, _____.

Hint

No, the answer is incorrect.

Score: 0

Accepted Answers:

(Type: String) 28,1

3) The Fick's first law is: (J = Atomic Flux, D = Diffusivity and M = Mobility) :

0 points

0 points

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Week 12

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$$J = -M\nabla c$$

No, the answer is incorrect.

Score: 0

Accepted Answers:

$$J = -D\nabla c$$

4) Fick's second law is nothing but a combination of Fick's first law and law of conservation of: **0 points**



Energy



Potential Energy



Mass



Momentum

No, the answer is incorrect.

Score: 0

Accepted Answers:

Mass

You were allowed to submit this assignment only once.

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