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Courses » Phase Diagrams in Materials Science and Engineering

Announcements

Course

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Unit 14 - Week 13

Course outline

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Week 13

- Lecture 56 : Solidification Behaviour of Ternary Eutectic Alloys
- Lecture 57 : Phase Diagram of Ternary Eutectic with Terminal Solid Solution
- Lecture 58 : Ternary Peritectic Reaction
- Lecture 59 : Quasi-peritectic Reaction
- Lecture 60 : Case Studies on Ternary Phase Diagrams-I
- Lecture 61 : Case Studies on Ternary Phase Diagrams-II
- Quiz : Week 13 Assignment 13

Assignment Solutions

Week 13 Assignment 13

The due date for submitting this assignment has passed.

Due on 2016-04-19, 23:55 IST.

Submitted assignment

1) Which of the following forms ternary eutectic system? 2 points

- Al-Cu-Si
- Bi-Cu-Na
- Bi-In-Sn
- None of these

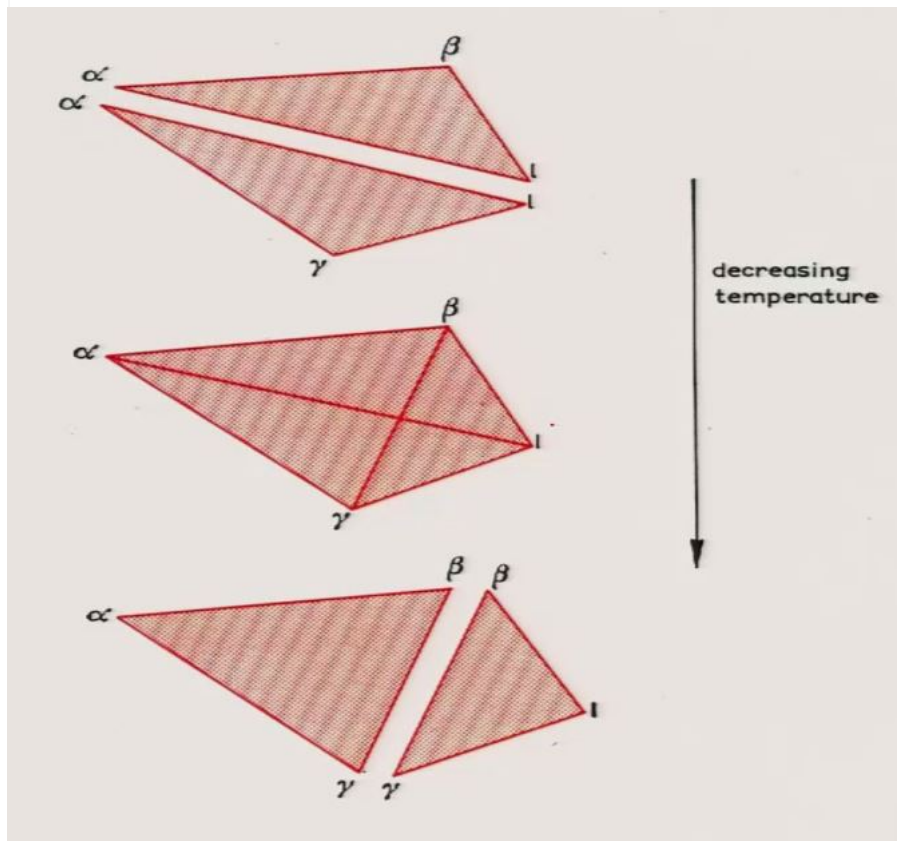
No, the answer is incorrect.

Score: 0

Accepted Answers:

Al-Cu-Si

Bi-In-Sn

2) The following figure shows which type of reaction? 2 points

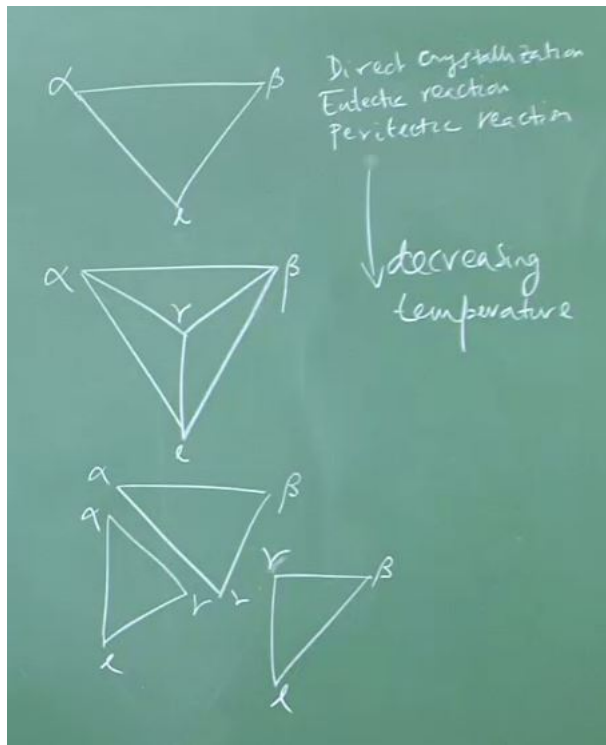
- $L + \alpha + \beta \rightarrow \gamma$
- $L + \alpha \rightarrow \beta + \gamma$
- $L_1 + L_2 \rightarrow \alpha + \beta$
- None of these

No, the answer is incorrect.

Score: 0

Accepted Answers:

 $L + \alpha \rightarrow \beta + \gamma$ 3) The following figure shows which type of reaction? 2 points



- $L_1 + L_2 \rightarrow \alpha + \beta$
- $L + \alpha \rightarrow \beta + \gamma$
- $L + \alpha + \beta \rightarrow \gamma$
- None of these

No, the answer is incorrect.
Score: 0

Accepted Answers:
 $L + \alpha + \beta \rightarrow \gamma$

4) The following image is formed with which type of electrons? Also the material appearing darker has 2 points a relatively higher or lower atomic number?



- Secondary electrons, higher atomic number
- Secondary electrons, lower atomic number
- Backscattered electrons, higher atomic number
- Backscattered electrons, lower atomic number

No, the answer is incorrect.
Score: 0

Accepted Answers:
Backscattered electrons, lower atomic number

5) Phases that exist on left side of an invariant reaction line are called

2 points

- Pro-phase
- Hypo-phase
- Hyper-Phase
- None of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

Hyper-Phase

6) What is forsterite?

2 points

- MgSiO₃
- Mg₂SiO₄
- MgO+ MgSiO₃
- None of these

No, the answer is incorrect.

Score: 0

Accepted Answers:

Mg₂SiO₄

7) What is enstatite?

2 points

- MgSiO₃
- Mg₂SiO₄
- MgO+ MgSiO₃
- None of these

No, the answer is incorrect.

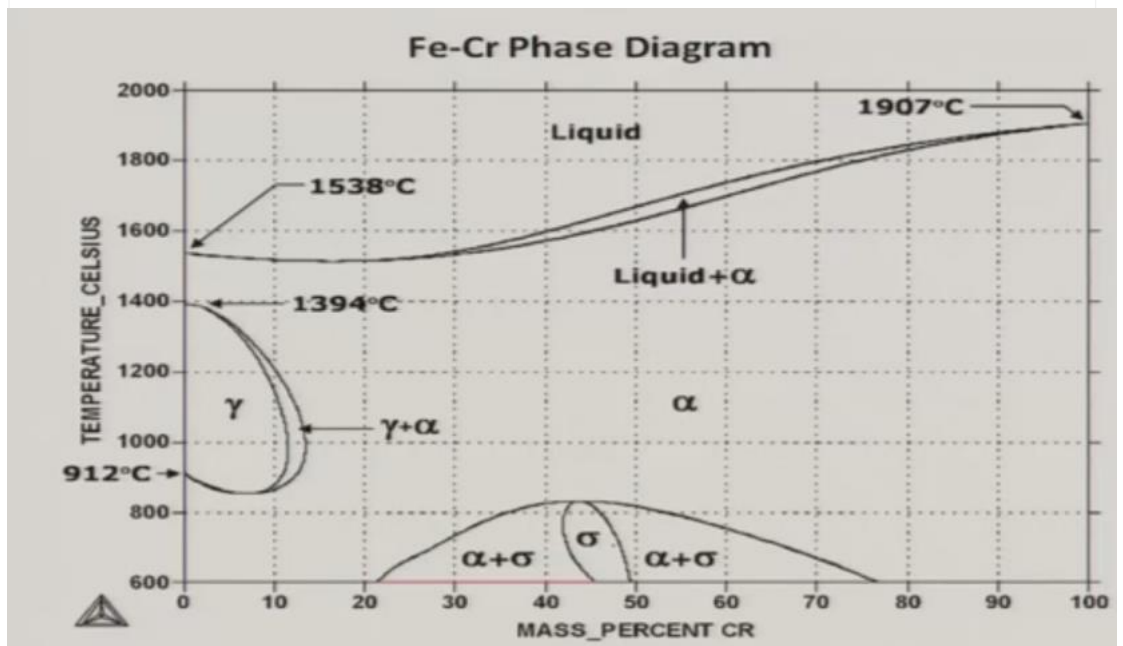
Score: 0

Accepted Answers:

MgSiO₃

8) The σ phase in the following Fe-Cr phase diagram is

2 points



- Intermetallic Phase
- Lower Bainite
- Liquid
- None of these

No, the answer is incorrect.

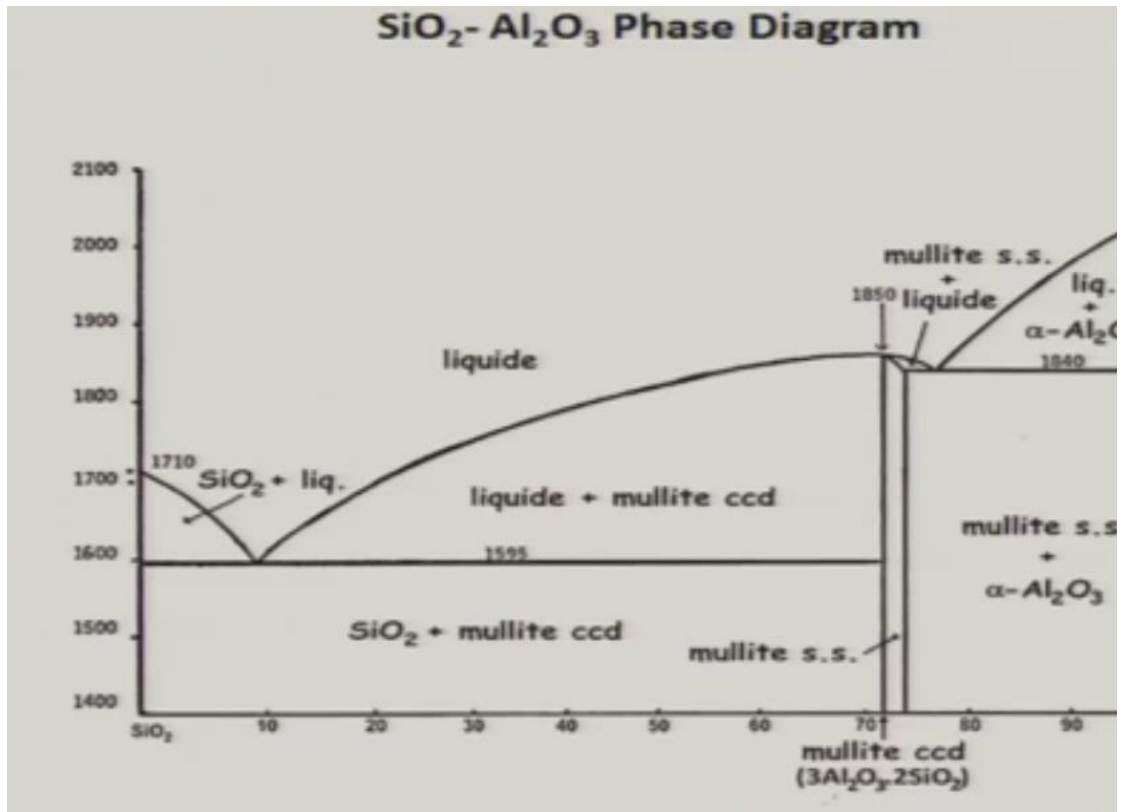
Score: 0

Accepted Answers:

Intermetallic Phase

9) How many eutectic reactions exist in the following phase diagram?

2 points



- 1
- 2
- 3
- 4

No, the answer is incorrect.

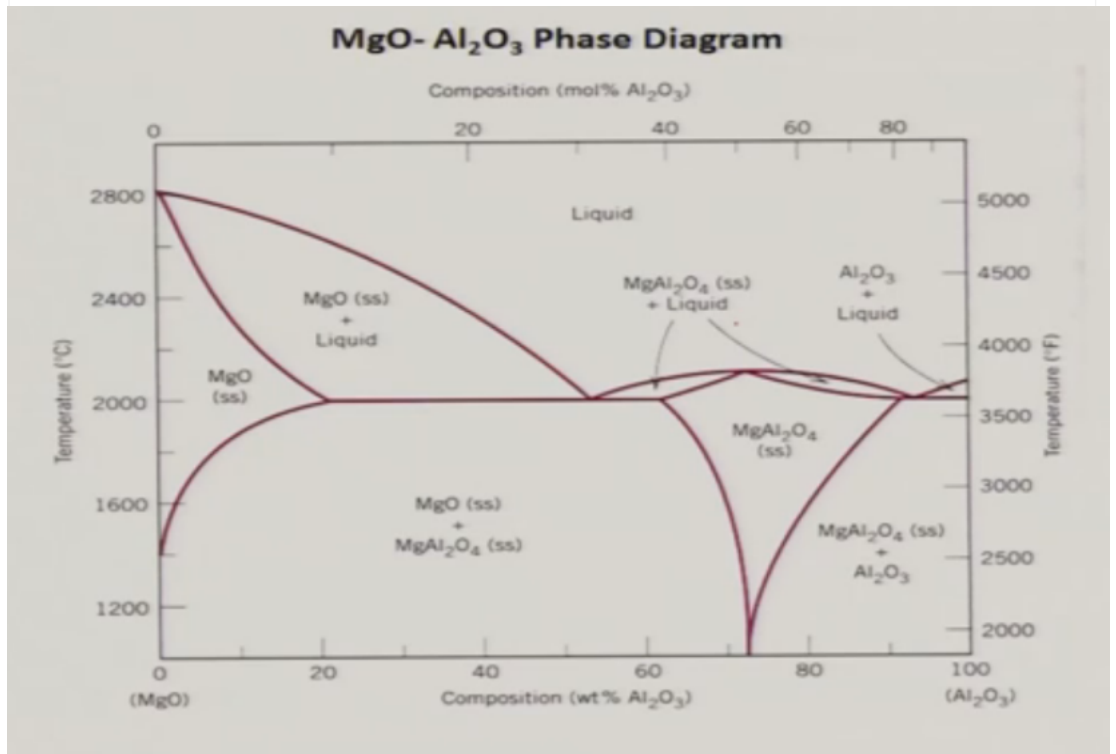
Score: 0

Accepted Answers:

2

10) How many eutectic reactions exist in the following phase diagram?

2 points



- 1
- 2
- 3
- 4

No, the answer is incorrect.

Score: 0

Accepted Answers:

2

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