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NPTEL

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Courses » Fundamentals of X-ray diffraction and Transmission electron microscopy

Announcements Course Ask a Question Progress

Unit 9 - Week 8



Course outline

How to access the portal

Week 1

Week 2

Week 3

Week 4

Week 5

Week 6

Week 7

Week 8

- Lecture 22 - TEM sample preparation-1
- Lecture 23 - TEM sample preparation - 2
- Lecture 24 - TEM Tutorial - 1
- Lecture 25 - TEM Tutorial - 2
- Lecture 26 - TEM Tutorial - 3
- Lecture 27 - TEM Tutorial - 4
- Quiz : Week 8- Assignment

Week 8- Assignment

The due date for submitting this assignment has passed. **Due on 2016-09-13, 22:00 IST**
As per our records you have not submitted this assignment.

1) Enhanced surface oxide is an artifact of _____ technique

1 point

- Ion milling
- Electropolishing
- Dimpling
- Disk punching

No, the answer is incorrect.**Score: 0****Accepted Answers:***Electropolishing*

2) _____ technique is used for polymeric sample preparation

1 point

- Ion milling
- Electro polishing
- Dimpling
- Ultramicrotomy

No, the answer is incorrect.**Score: 0****Accepted Answers:***Ultramicrotomy*

3) _____ technique is used to prepare an electron transparent region in a 90 µm thick copper foil

Hint

No, the answer is incorrect.**Score: 0****Accepted Answers:***(Type: String) electropolishing**(Type: String) electro polishing*

1 point

4) _____ technique is best suited for making a 3mm disc from a ceramic plate

1 point

- Ultrasonic disc cutting
- Disc punching
- Electro polishing
- Ion milling

No, the answer is incorrect.

Score: 0

Accepted Answers:

Ultrasonic disc cutting

5) Weiss's Zone Law is _____, for a (h k l) plane in [u v w] direction

1 point

- $hu+kv+lw=0$
- $hu+kv+lw=1$
- $h_1h_2+k_1k_2+l_1l_2=0$
- $h_1h_2+k_1k_2+l_1l_2=1$

No, the answer is incorrect.

Score: 0

Accepted Answers:

$hu+kv+lw=0$

6) Zone axis for (100) and (010) plane is _____

Hint

No, the answer is incorrect.

Score: 0

Accepted Answers:

(Type: String) 001

(Type: String) [001]

(Type: String) <001>

1 point

7) How much thickness value you could suggest for a sample to be used in ion milling?

1 point

- <100 micron
- <150 micron
- <50 micron
- None of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

<50 micron

Previous Page

End



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