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

Progress Announcements Course Ask a Question

Unit 6 - Wee



Course outline How to access the portal Week 1 Week 2 Week 3 Week 4 Week 5 Cecture 13 -XRD Tutorial - 1 O Lecture 14 -XRD tutorial - 2 O Lecture 15 -Introduction to Transmission Electron Microscopy (TEM) Quiz : Week 5 -Assignment Week 6 Week 7 Week 8

k	k 5		
	Week 5 - Assignment	i	
	The due date for submitting this assignment has passed. Due on 2016-08-28, 22: As per our records you have not submitted this assignment.		
	1) What are the first three allowed reflections for the body centered cubic materials?	1 poin	
	 100, 110, 111 110, 200, 211 111, 200, 220 110, 111, 200 		
	No, the answer is incorrect. Score: 0		
	Accepted Answers: 110, 200, 211		
	2) law has to be satisfied by a beam to undergo diffraction No, the answer is incorrect. Score: 0		
	Feedback: Bragg's		
	Accepted Answers: (Type: String) Bragg's (Type: String) Bragg (Type: String) Braggs		
		1 poin	
ŗ	3) Let two materials having same crystal structure is analysed using XRD. What are the parameters that distinguishes both of the reflections?	1 poin	
	θ and λ θ and d d and λ None of the above		
	No, the answer is incorrect. Score: 0		
	Accepted Answers: θ and d		

 Crystal structure Lattice repeat distance Crystallographic symmetry

4) What information one can obtain from a material by using TEM?

1 point

All of the above	
No, the answer is incorrect. Score: 0	
Accepted Answers: All of the above	
5) type of source gives better contrast than thermionic emission electron source	
	f
No, the answer is incorrect.	
Score: 0	3
Feedback: field emission	
Accepted Answers:	Ľ
(Type: String) field emission	ir
(Type: String) field emission gun	ш
(Type: String) fieldemissiongun	1 2
6) Comparing SEM and TEM, which of the following statment is true?	1 point
TEM has no depth sensitivity	
SEM has no depth sensitivity	
TEM has more depth sensitivity than SEM	
TEM has less depth sensitivity than SEM	
No, the answer is incorrect. Score: 0	
Accepted Answers: TEM has no depth sensitivity	
7) What are the inelastic scattering processes that occur in TEM?	1 point
Generation of x rays	
Generation of secondary electrons	
Collective interaction with many atoms	
All of the above	
No, the answer is incorrect. Score: 0	
Accepted Answers: All of the above	

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