NPTEL » Nanomaterials and their Properties

Announcements

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Mentor

ourse outline	Week 10: Assignment 10
ow does an NPTEL online ourse work?	The due date for submitting this assignment has passed.
/eek-01	As per our records you have not submitted this assignment.
	Ionic polarization
eek-02	decreases with temperature
eek-03	increases with temperature
	may increase or decrease with temperature
eek-04	is independent of temperature
eek-05	No, the answer is incorrect. Score: 0
eek-06	Accepted Answers: is independent of temperature
eek-07	 In the polarization versus field strength plot for a ferroelectric crystal, Ps stands for
eek-08	space charge polarization
	 saturation polarization
k-09	o spontaneous polarization
k-10	onone of these
- TO	No, the answer is incorrect.
ecture 22- Electrical	Score: 0 Accepted Answers:
Properties of Nanomaterials	spontaneous polarization
Lecture 23- Electrical Properties of Nanomaterials	During melting, the relative dielectric constant
(II)	always increases
Lecture 24- Magnetism in the	always decreases
Nanomaterials	may increase or decrease
Quiz: Week 10: Assignment	none of these
	No, the answer is incorrect. Score: 0
Week-10: Assignment-10 Solution	Accepted Answers:
	may increase or decrease
Feedback for Week 10	4) Mith increase in terms evelves the evicutation relation in terms.
eek-11	 With increase in temperature, the orientation polarization in general
eek- 12	increases
	decreases
OWNLOAD VIDEOS	is constant
	onone of these
	No, the answer is incorrect

Accepted Answers: -H

Week 10: Assignment 10	
The due date for submitting this assignment has passed. As per our records you have not submitted this assignment.	Due on 2021-10-06, 23:59 IST.
Ionic polarization	1 point
O decreases with temperature	
increases with temperature	
may increase or decrease with temperature is independent of temperature	
No, the answer is incorrect.	
Score: 0 Accepted Answers: is independent of temperature	
	1 noint
In the polarization versus field strength plot for a ferroelectric crystal, Ps stands for	1 point
space charge polarization saturation polarization	
o spontaneous polarization	
O none of these	
No, the answer is incorrect. Score: 0	
Accepted Answers: spontaneous polarization	
During melting, the relative dielectric constant always increases	1 point
always decreases	
may increase or decrease	
O none of these No, the answer is incorrect.	
Score: 0 Accepted Answers:	
may increase or decrease	
4) With increase in temperature, the orientation polarization in general	1 point
increases	
Odecreases	
o is constant none of these	
No, the answer is incorrect.	
Score: 0 Accepted Answers:	
decreases	
5) Among the common dielectric materials, the highest dielectric strength is possessed by	1 point
O mica	
transformer oil PVC	
Opolyethylene	
No, the answer is incorrect. Score: 0	
Accepted Answers:	
	d maint
The temperature of the antiferromagnetic-to-paramagnetic transition is called	1 point
antiferromagnetic Curie temp.	
Curie–Weiss temp. Neel temp.	
O Debye temp	
No, the answer is incorrect. Score: 0	
Accepted Answers:	
Neel temp.	
 The transition from the ferromagnetic to the paramagnetic state is named after 	1 point
Curie Waiss	
○ Curie–Weiss ○ Neel	
O Debye	
No, the answer is incorrect. Score: 0	
Accepted Answers: Curie	
8) The Curie temperature of cobalt is	1 point
	1 point
○ 2000 K ○ 1400 K	
○ 1040 K	
○ 650 K	
No, the answer is incorrect. Score: 0	
Accepted Answers: 1400 K	
9) To increase the mechanical strength of an Al conductor, we can use	1 point
solute strengthening	
O cold working	
doping steel reinforcement	
No, the answer is incorrect.	
Score: 0 Accepted Answers:	
steel reinforcement	
10) The magnetization of a superconductor is	1 point
O 0	
○ –B ○ –1	
○-H	
No, the answer is incorrect. Score: 0	