Engineering and terials Science APL 102: Introduction to Ma

6:00-6:20 PM

Time:

Date: 08-11-2016, Tuesday

Quiz#1, Set: A Marks: 20

answer. wrong to every deduced plnow Write the correct choice(s). 0.5 marks
)T circle or fick the choice. Note: Wr DONOT

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	A crystal has a cubic unit cell of size 4.2 Å. Using a wavelength of 1.54 A at what angle would you expect to measure the (111) peak? (2 Marks)	toms) is propo	A the square root of time	(B) the concentration gradient	D the energy barrier Q	In a single-component condensed system, if degree of freedom is zero, maximum number of phases that can co-exist is: A. 0 B. 1 C. 2 D. 3	, approx	A. 0.1 B. 0.2 (C. 0.25) D. 10 A. 0.1 B. 0.2 (C. 0.25) D. 10 A. 0.1 A. 0.1 B. 0.2 (C. 0.25) D. 10 A. 0.1 A. 0.1 B. 0.2 (C. 0.25) D. 10 A. 0.1 A. 0.1 B. 0.2 (C. 0.25) D. 10 A. 0.1 A. 0.1 B. 0.2 (C. 0.25) D. 10 A. 0.1 A. 0.1 B. 0.2 (C. 0.25) D. 10 A. 0.1 A. 0.1 B. 0.2 (C. 0.25) D. 10 A. 0.1 A. 0.1 B. 0.2 (C. 0.25) D. 10 A. 0.1 A. 0.1 B. 0.2 (C. 0.25) D. 10 A. 0.1 A. 0.1 B. 0.2 (C. 0.25) D. 10 A. 0.1 A. 0.1 B. 0.2 (C. 0.25) D. 10 A. 0.1 A. 0.1 B. 0.2 (C. 0.25) D. 10 A. 0.1 A. 0.1 B. 0.2 (C. 0.25) D. 10 A. 0.1 A. 0.1 B. 0.2 (C. 0.25) D. 10 A. 0.1 A. 0.2 (C. 0.25) D. 10 A. 0.1 A. 0.2 (C. 0.25) D. 10 A. 0.1 A. 0.2 (C. 0.25) D. 10 A. 0.	ute than solvent	B. Lower modulus of solute than solvent	(D) Smaller size difference between solute and solvent	oeutectoid phase in a hypereutectoid steel is: A. Austenite B. Ferrite C. Pearlite (D.)N	Which of these factors will promote easy movement of dislocations? (1 Marks)	A. Larger dislocation width B. Smaller dislocation width	ctor	The miller indices for the shaded plane is: (2 Marks)	A. $(\bar{1}01)$ B. $(\bar{2}1\bar{3})$ $(\bar{C}.(203))$ $(\bar{C}.(203))$	Substitutional diffusion (1 Marks)	
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