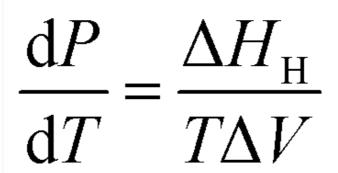
Assignment 3	
1) liquid + (alpha) phase = (beta) phase is a reaction. Eutectic Peritectic Monotectic Syntectic	1 point
Accepted Answers: Peritectic 2) Which of the following phase diagram shows liquid immiscibility? Eutectic Peritectic Monotectic Eutectoid None of these	1 point
Accepted Answers: Monotectic 3) Application (or increase) of pressure will result in in melting temperature of water Increase Decrease Remains constant Can't be defined	. 1 point
Accepted Answers: Decrease 4) Change in Gibbs free energy is related to interfacial energy and related to radius of precipitate. directly, inversely inversely, directly directly, directly	1 point

inversely, inversely	
Accepted Answers:	
directly, inversely	
5) Low angle tilt boundary is an array of	1 point
screw dislocations	
edge dislocations	
vacancies	
stacking faults	
A counted American	
Accepted Answers: edge dislocations	
6) The thermodynamic driving force for diffusion is :	1 point
 concentration gradient 	
chemical potential gradient	
temperature gradient	
onone of these	
Accepted Answers: chemical potential gradient	
7) Interstitial diffusion is than vacancy diffusion.	1 point
rapid	
sluggish	
both have same velocity none of these	
one of these	
Accepted Answers:	
rapid	
8) Diffusion flux is	1 point
	•
scalar vector	
dimensionless	
tensor of rank 3	
Accepted Answers:	
vector	
9) This equation is known as :	1 point
Clausius	
Clausius Clapeyron	
Gibbs Duhem	
None of these	
Accepted Answers:	
Accepted Allemote.	

Clausius Clapeyron

1 point



TOPOTICE III ation vs Distance plots resemble	10)Concentration vs Distance plots resemble	·
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- Lognormal distribution
- Binomial distribution
- Lorentzian distribution
- Gaussian distribution

Accepted Answers:

Gaussian distribution