

Name:

Homework for Lecture 21

(1) When β phase forms from α phase, a new interface forms; such interface can be classified into three types: coherent, semi-coherent and incoherent. Considering the interface transfer parameter (M), which type of interface moves the fastest, Why?

(2) For a binary regular solution, according to Becker's model of coherent interface, if the difference in concentration across the interface is doubled, how will the interface energy change? Doubled? Quadrupled? Why?