

Learning Objectives – Phase Diagrams
BE-410, Spring '06, Dr. C. S. Tritt

Phase Diagrams (not stressed in your book)

Be able to describe the general features of two component phase diagrams.

Be able to use phase diagrams to predict the melting and freezing points of two component mixtures.

Be able to use phase diagrams to predict the relative amounts of each phase present and their composition at various temperatures and bulk compositions for two component mixtures.

- a) Be able to use phase diagrams to predict phases at various temperatures and compositions.
- b) Be able to use the inverse lever rule calculate the relative amounts of various phases in a two component system.

Be able to explain the significance of eutectic and eutectoid points on phase diagrams.

Be able to plot compositions on three component diagrams.