

Advanced Thermodynamics
Prof. B.S. Murty
Department of Metallurgy and Material Science Engineering
IIT Madras

Free energy, Stability, equilibrium in a unary system

Questions:

1. How is free energy expressed in terms of temperature and pressure?
2. How does free energy change with temperature?
3. How is stability defined in terms of free energy?
4. What is the difference between metastable state and unstable state?
5. What is the barrier for solidification of a liquid?
6. How is equilibrium defined for a single component system?