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

## Precipitate coarsening, stability of a phase, spinodal decomposition

## Questions:

- 1. What is the driving force for Ostwald ripening?
- 2. Demonstrate that a uniform precipitate particle size hinders precipitate coarsening.
- 3. Show how the concentration profile around the precipitate changes with particle coarsening as a function of time.
- 4. How does an alloy outside the spinodal composition domain undergo precipitation reaction below its transformation temperature?