

Introduction to Phase Transition

MSE-S203

(Phase Equilibria in Materials)

Ankur Katiyar

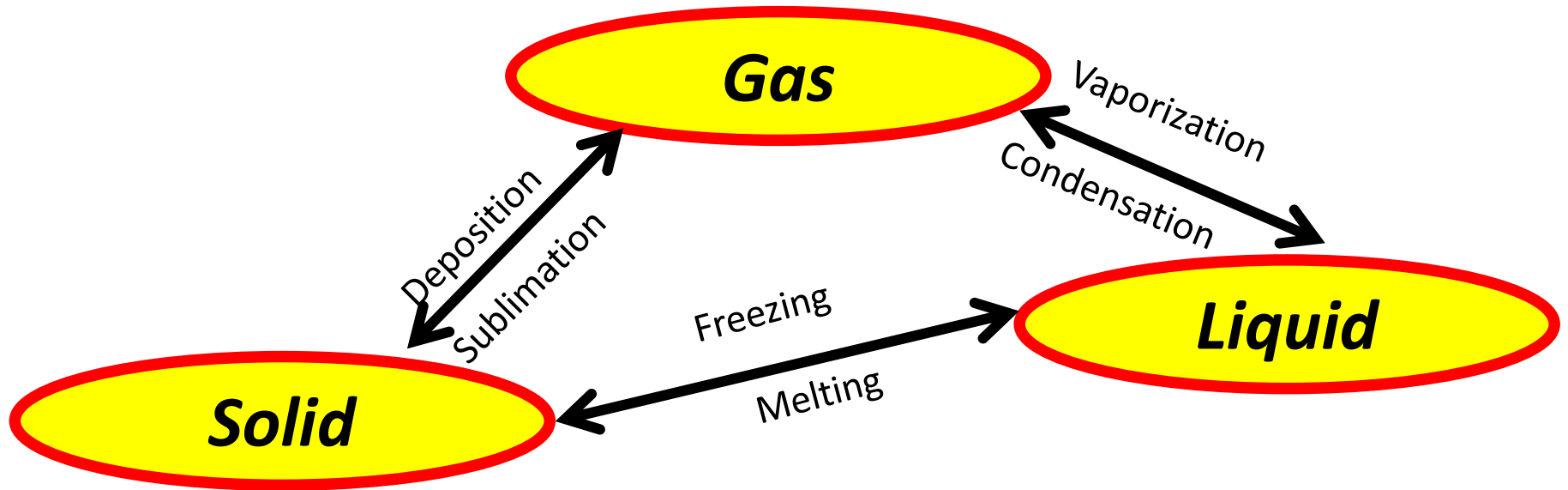
**Assistant Professor, MSME Department
UIET, CSJM University**

Phase Transition in Materials

➤ *Phase Transition*

- Phase transition is said to occur when a substance changes from a solid, liquid, or gas state to a different state.
- Every element and substance can transfer from one phase to another at a specific combination of temperature and pressure.
- If the change in free energy leads to change in structural details of a phase, a “Phase transformation or Phase transition” is said to occur.

Phase Transition in Materials



Phase Transition in Materials

➤ *Solid-Solid Transitions*



Solid-Solid Transitions are transitions between different crystalline forms of the same compound.

Example:

