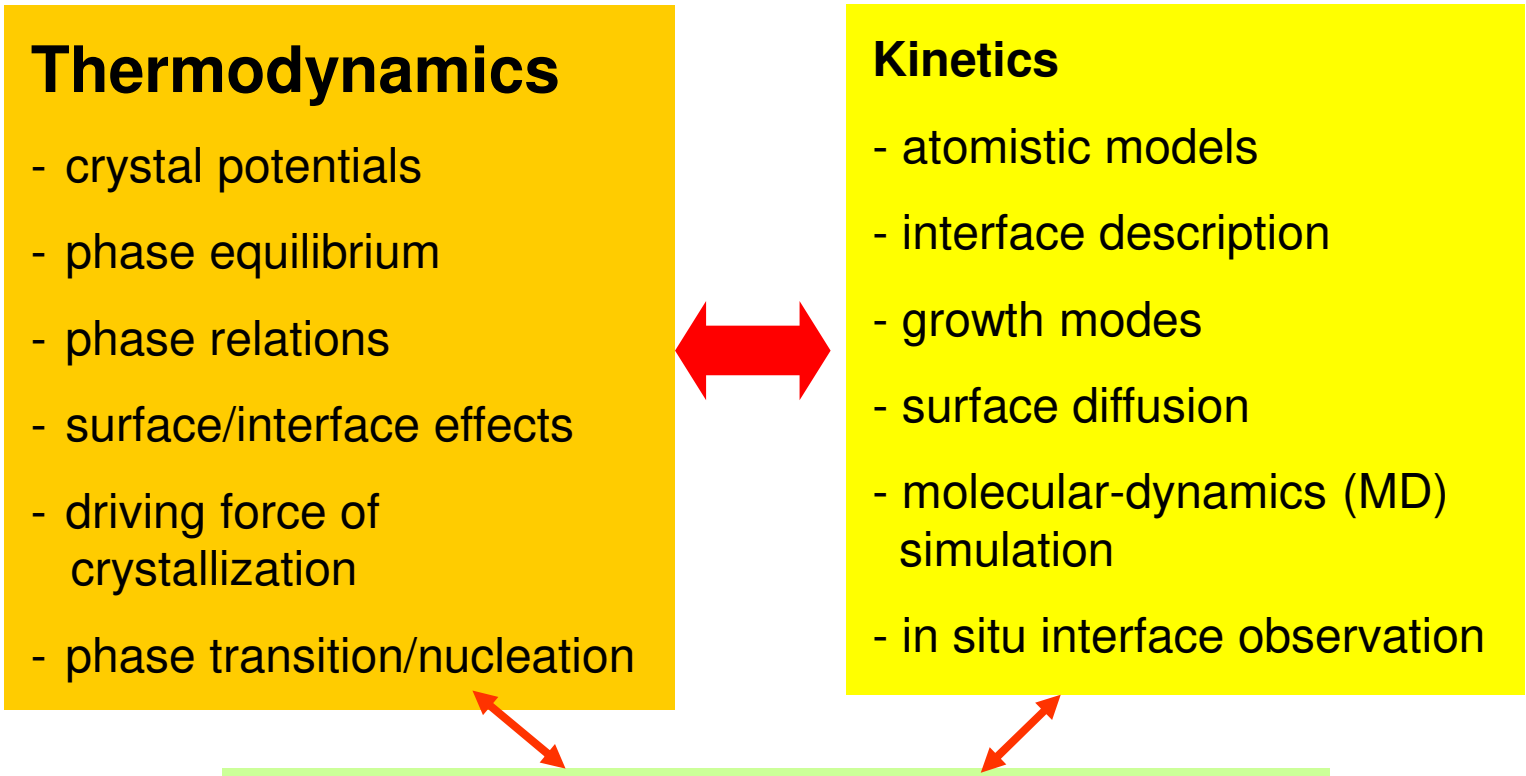
Fundamentals of Crystal Growth



Thermodynamics

1. **Introduction**

2. **Potential of Gibbs**
   - 2.1. **The importance for crystal growth**
   - 2.2. **The point defect equlibrium**
   - 2.3. **The phase transition**

3. **Phase equilibrium**
   - 3.1. **Two phases, one component**
   - 3.2. **Two phases, two components**
   - 3.3. **Phase diagrams**
   - 3.4. **Surfaces and interfacial effects**

4. **Deviation from equilibrium**
   - 4.1. **Driving force of crystallization**
   - 4.2. **Nucleation** (homo- and heterogeneous)
   - 4.3. **Irreversible TD at crystal growth**

Kinetics

Transport processes