

Advanced Thermodynamics
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Precipitation - Quasicrystals

Questions:

1. How does one measure the driving force for precipitation and the driving force for nucleation?
2. What limits the maximum temperature used for solutionising during precipitation hardening treatment?
3. What would be the difference in the kinetics of solid state phase transformation and liquid-solid phase transformation?
4. Show that a five-fold rotational symmetry is not compatible with translational symmetry.
5. What was the definition of a crystal (as defined by the International Union of Crystallography) before the quasicrystal was discovered and what is it now?