Advanced Thermodynamics

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Precipitation

Questions:

- 1. What are coherent, semi-coherent and incoherent precipitates?
- 2. Why does precipitation occurs in a number of steps in many systems?
- 3. What is Ostwald step rule?
- 4. How one can generate GP Zone, θ '", θ ' solvus lines? How are they different from θ solvus?
- 5. What microstructure leads to peak hardening during ageing?
- 6. How does one increase the ageing kinetics?
- 7. How do aging temperature and composition of the alloy influence the age hardening curve?