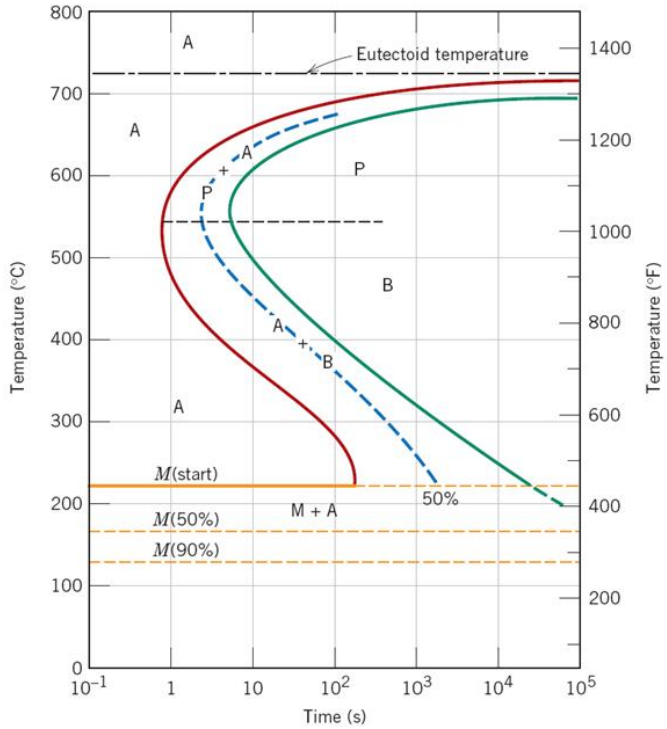

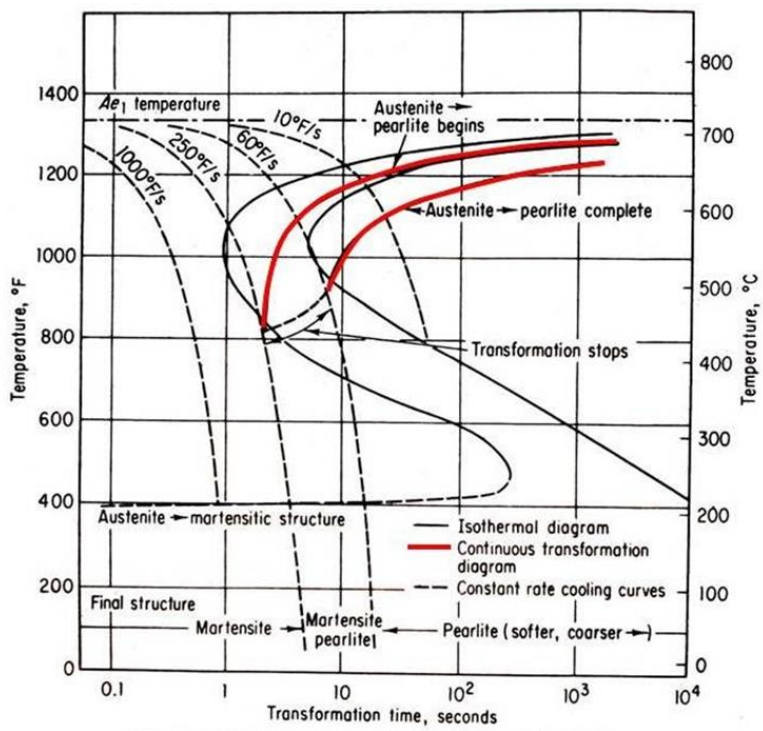

Continuous Cooling-Transformation (C-T) Diagram
(Derived from the isothermal-transformation diagram for a plain-carbon eutectoid steel)

Approximate cooling rates for small specimens:

- quench in water ~1000F/sec; martensite
- quench in oil ~150F/sec; mixture of pearlite and martensite
- NORMALIZED: quench in air ~30F/sec; fine pearlite
- FULL ANNEALED: quenched in furnace <<30F/sec; coarse pearlite (softer than fine pearlite)