

Pierre Kawak

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Primary Nucleation

Secondary Nucleation

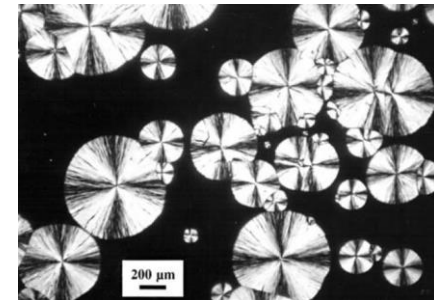
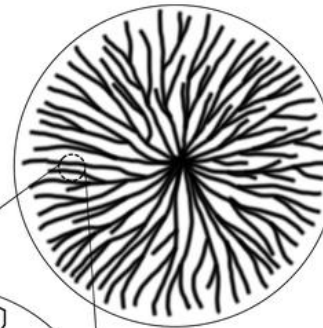
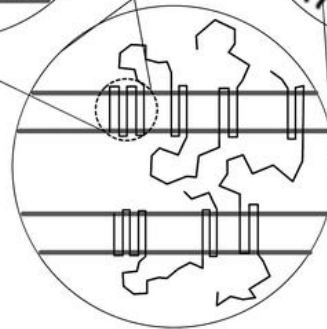
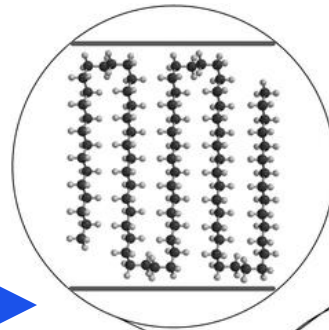
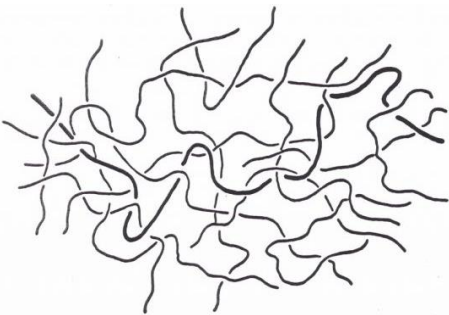
Coarsening

Amorphous
Melt

Lamellar
Crystal

Spherulite

Semicrystalline
Materials



<https://polymerinnovationblog.com/polymers-electronic-packaging-types-polymers-used/>

Winkler, Anders & Kloosterman, Gertjan. (2015). A critical review of fracture mechanics as a tool for multiaxial fatigue life prediction of plastics. *Frattura ed Integrità Strutturale*. 9.

S. T. Milner, "Polymer crystal-melt interfaces and nucleation in polyethylene," *Soft Matter*, vol. 7, no. 6, pp. 2909–2917, 2011.

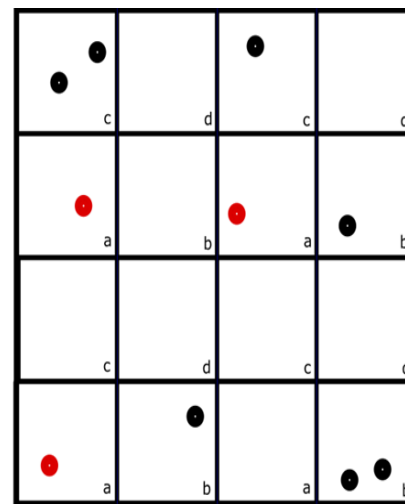
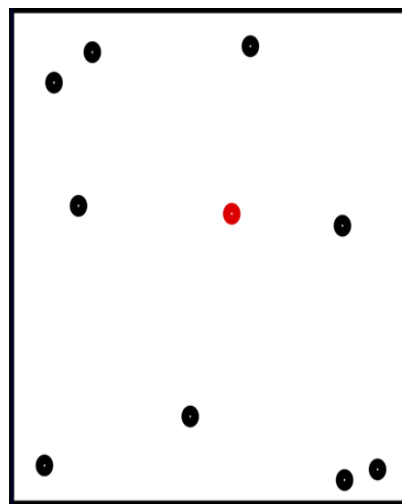
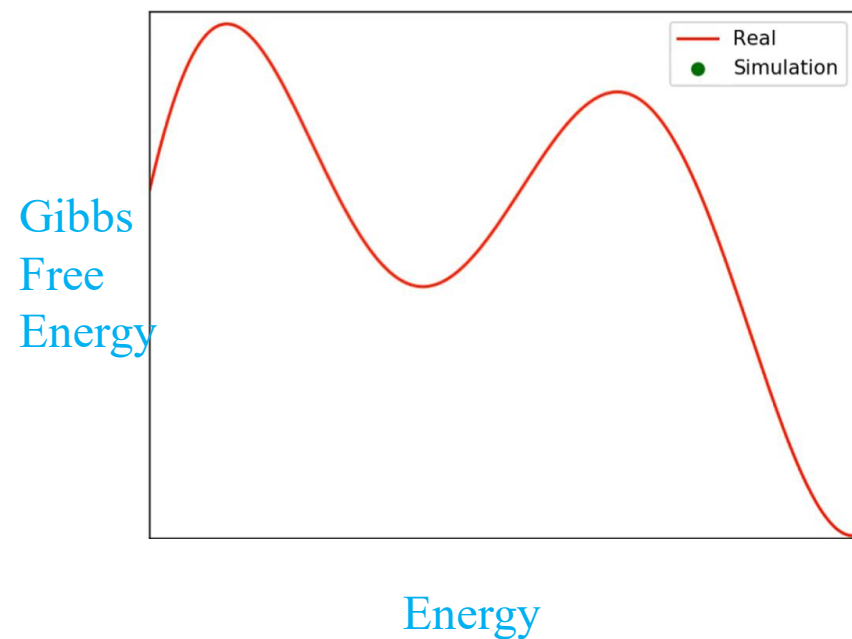


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1. Wang-Landau Sampling

2. Domain Decomposition



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- The program is called Monte Carlo Polymer Crystallization (**MCPC**). It does **GPU-accelerated Polymer Wang-Landau Sampling Monte Carlo Simulation**.
- Preliminary studies show high achieved speedups

