

Unit 1: The Polymer Model Part 1

1. The Polymer Model Part 1

- a. General idea of the model: all monomers are identical and indistinguishable
 - i. They are arranged in a regular lattice structure and interact only with their nearest neighbors and itself.
- b. The basic equations
 - i. The number of monomers N is conserved: $N = N_1 + N_2 + N_3 + \dots$
- c. The free energy of the system is given by:
 - i. $F = -k_B T \ln Z$ where Z is the partition function.
 - ii. $Z = \sum_{\{n_i\}} \exp(-\beta E_{\{n_i\}})$ where $\beta = 1/(k_B T)$ and $E_{\{n_i\}}$ is the energy of the system for a given set of occupation numbers $\{n_i\}$.
 - iii. $E_{\{n_i\}} = \sum_{i,j} \epsilon_{ij} n_i n_j$ where ϵ_{ij} is the interaction energy between monomers i and j .
 - iv. $\epsilon_{ij} = \epsilon_{ji}$ and $\epsilon_{ii} = \epsilon_{jj}$.
 - v. $\epsilon_{ij} = \epsilon_{ij}^0 + \epsilon_{ij}^1$ where ϵ_{ij}^0 is the interaction energy between monomers i and j in the absence of other monomers and ϵ_{ij}^1 is the interaction energy between monomers i and j in the presence of other monomers.
 - vi. $\epsilon_{ij}^0 = \epsilon_{ij}^1 = \epsilon_{ij}$ if i and j are nearest neighbors and $\epsilon_{ij}^0 = \epsilon_{ij}^1 = 0$ otherwise.
 - vii. $\epsilon_{ij} = \epsilon_{ij}^0 + \epsilon_{ij}^1 = \epsilon_{ij}^0 + \epsilon_{ij}^1$.
 - viii. $\epsilon_{ij} = \epsilon_{ij}^0 + \epsilon_{ij}^1 = \epsilon_{ij}^0 + \epsilon_{ij}^1$.
 - ix. $\epsilon_{ij} = \epsilon_{ij}^0 + \epsilon_{ij}^1 = \epsilon_{ij}^0 + \epsilon_{ij}^1$.
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**Jack C. Richards, Jonathan Hull, Susan
Proctor**

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