

Unit 1: The Polymer Model Part 1

1. The Polymer Model Part 1

- a. General idea of the model: all monomers are identical and interact only with their nearest neighbors. The model is a simple representation of a polymer chain. The monomers are represented by spheres and the interactions between them by springs. The model is used to study the properties of polymers, such as their elasticity and viscosity.
- b. The Polymer Model:
 - i. The model consists of a chain of N monomers, each of mass m .
- c. The Hamiltonian of the system:
 - i. The kinetic energy of the system is given by $T = \frac{1}{2} \sum_{i=1}^N \dot{x}_i^2$.
 - ii. The potential energy of the system is given by $V = \frac{1}{2} \sum_{i=1}^{N-1} k(x_{i+1} - x_i)^2$.
 - iii. The total energy of the system is $E = T + V$.
- d. The equations of motion:
 - i. The equations of motion are given by $m \ddot{x}_i = -k(x_i - x_{i-1}) + k(x_{i+1} - x_i)$.
 - ii. The equations of motion can be written in matrix form as $M \ddot{x} = -Kx$.
 - iii. The matrix M is diagonal and K is tridiagonal.
 - iv. The eigenvalues of K are $\omega_k^2 = \frac{4k}{m} \sin^2 \frac{ka}{2}$.
 - v. The eigenvectors of K are $\phi_k = \frac{1}{\sqrt{N}} \sum_{j=1}^N e^{ikja} \phi_j$.

Apex Unit 5 Practice Assignment Answers

Patrick Vollmar



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Practical English, a Scholastic Magazine, 1959 *KNOWLEDGE AND CURRICULUM* SEN GUPTA, M., 2021-01-01
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