Modeling a shear test in the micro canonical ensemble:

Introduction:

Steps

- 1.Creation of FCC crystal
- 2.Random generation of velocity
- 3.Calculation of interatomic forces.
- 4.Integration scheme to update the position.

While calculating the energy for the system the energy remains constant. Velocity verlet and verlet has the similar trend while leap frog has a different trend. The three graphs for the velocity verlet algorithm are mentioned below:





