
1 General Properties of Interaction Potentials.
   1.1 Universality of the Binding Energy.
   1.2 Attractive Potentials.
   1.3 Repulsive Potentials.

2 Potentials in Liquids.
   2.1 Model Potentials.
   2.2 Lennard-Jones Potential

3 Potentials in Ionic Systems.
   3.1 Parametrization.
   3.2 Shell Model.

4 Potentials in Covalent Systems.
   4.1 Bond Bending.
   4.2 Bond Torsion.
   4.3 Bond Breaking.
   4.4 Bond Order.
   4.5 Tersoff Potential.

5 Potentials in Metallic Systems.
   5.1 Electronic Gas.
   5.2 Pair Potentials.
   5.3 Many Body Potentials.
   5.4 Atom embedding.