

FUNDAMENTAL VIBRATIONS

Fundamental vibration is also divided into types:

STRETCHING VIB.

1.Streching vibration Involves a continuous change in the inter atomic distance along the axis of the bond b/w 2 atoms.

2.It requires more energy so appear at shorter wavelength. BENDING VIB.

1.Bending vibrations are characterized by a change in the angle b/w two bonds.

2.It requires less energy so appear at longer wavelength.

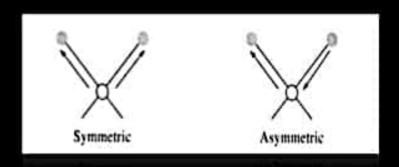
Now, streching vibration is further divided into :

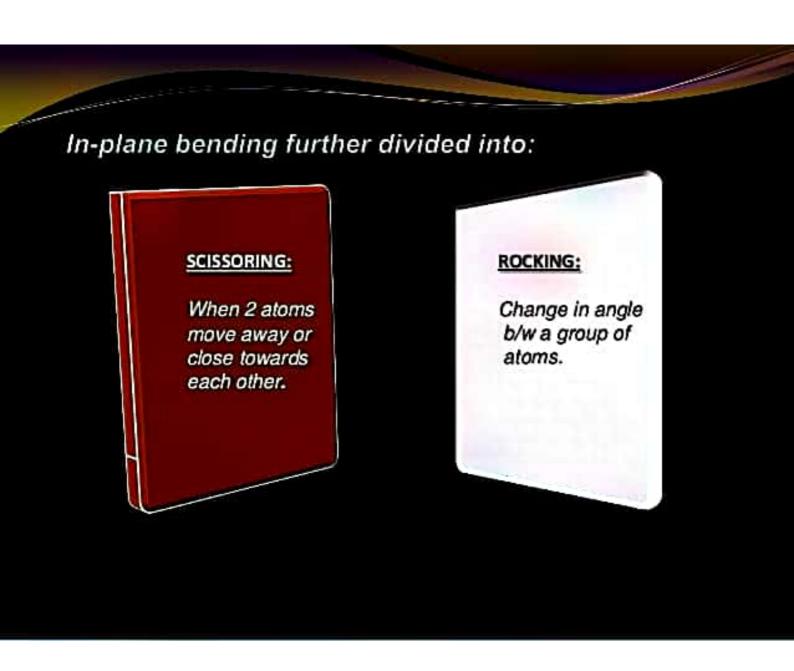
SYMMETRIC VIB.

 Inter atomic distance b/w 2 atoms increases/decreases.

ASYMMETRIC VIB.

 Inter atomic distance b/w 2 atoms is alternate/opposite.





Out plane bending is further divided into:

