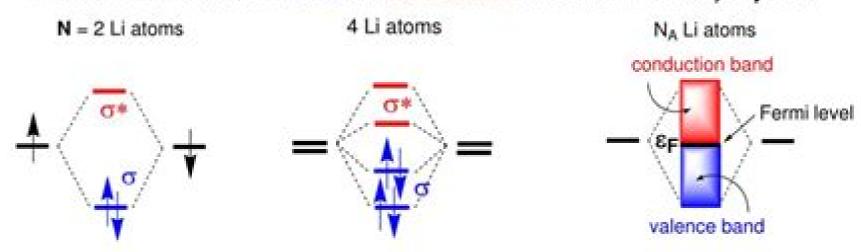
Lectures 21-22

Solid state materials. Electronic structure and conductivity 1) Band theory

- The electronic structure of solids can also be described by MO theory.
- A solid can be considered as a supermolecule.
- One mole of atoms (N_A), each with X orbitals in the valence shell contributes X moles of atomic orbitals producing X moles of MO's.

Consider qualitatively bonding between **N** metal atoms of ns¹ configuration (Li, Na etc) arranged in a chain; **N** = 2, 4, N_A. Assume that **X**=1 for simplicity.

- In the case of N ~ N_A atoms they form not bonds but bands.
- The band appearing in the bonding region is called valence band. The antibonding region is called conduction band.
- In the case of metals the valence and conduction bands are immediately adjacent.



Electronics Of Solids

Ensheng Dong



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