

## CHAPTER OVERVIEW

### 2: Bonding and Structure

Atomic radii, bond angles, and the valence electrons of the atoms or ions constituting compounds govern the bonding, structure, reactions, and physical properties of the compounds. It is desirable that the chemical properties of known and new compounds can be explained and predicted using universal parameters characteristic of the constituent elements. Inorganic chemistry has developed along with the discovery of new compounds and novel bonding modes. Therefore, it is important to understand the bonding modes, the geometrical and electronic factors governing the bonding, and to learn the basic concepts of molecular orbital theory.

[2.1: Classification of bonding](#)

[2.2: Geometrical factors governing bonding and structure](#)

[2.3: Electronic factors which govern bonding and structure](#)

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