

CHAPTER OVERVIEW

9: Chemical Bonding in Diatomic Molecules

Our basis for understanding chemical bonding and the structures of molecules is the electron orbital description of the structure and valence of atoms, as provided by quantum mechanics. We assume an understanding of the periodicity of the elements based on the nuclear structure of the atom and our deductions concerning valence based on electron orbitals.

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Thumbnail: A covalent bond forming H_2 where two hydrogen atoms share the two electrons. (CC BY-SA 3.0; [Jacek FH](#) via [Wikipedia](#); modified by LibreTexts)

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