

CHEM 360
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1. Overview

- 1.1. Ionization energy, electron affinity and electronegativities
- 1.2. Periodic trends
 - 1.2.1. Elements
 - 1.2.2. Hydrides
 - 1.2.3. Chlorides
 - 1.2.4. Oxides
- 1.3. VSEPR
- 1.4. MO theory
- 1.5. Oxidation state

2. Hydrogen

- 2.1. Atomic hydrogen
- 2.2. Molecular hydrogen
- 2.3. The proton
- 2.4. Hydrides
- 2.5. Hydrogen bond
- 2.6. Isotopes of hydrogen

References and background reading

R. J. Gillespie, *Chem. Soc. Rev.*, 1992, **21**, 59.

H. A. Bent, *Chem. Rev.*, 1961, **61**, 275 and *J. Chem. Edu.*, 1960, **37**, 616.