

CHAPTER OVERVIEW

6: Chemistry of Transition Metals

Simple substances of transition metals have properties characteristic of metals, i.e. they are hard, good conductors of heat and electricity, and melt and evaporate at high temperatures. Although they are used widely as simple substances and alloys, we typically encounter only iron, nickel, copper, silver, gold, platinum, or titanium in everyday life. However, molecular complexes, organometallic compounds, and solid-state compounds such as oxides, sulfides, and halides of transition metals are used in the most active research areas in modern inorganic chemistry.

[6.1: Structures of Metal Complexes](#)

[6.2: Electronic Structure of Complexes \(Part 1\)](#)

[6.3: Electronic Structure of Complexes \(Part 2\)](#)

[6.4: Organometallic Chemistry of d Block Metals \(Part 1\)](#)

[6.5: Organometallic Chemistry of d Block Metals \(Part 2\)](#)

[6.6: Reactions of Complexes](#)

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