Pearson

Chapter 22
Transition Metals and Coordination Compounds

The color of ruby is caused by a splitting of the *d*-orbital energy levels in Cr^{3+} by the host crystal.

> "Chemistry must become the astronomy of the molecular world."
>
> —*Alfred Werner (1866–1919)*

Learning Outcomes

22.1 The Colors of Rubies and Emeralds

22.2 Properties of Transition Metals

22.3 Coordination Compounds

22.4 Structure and Isomerization

22.5 Bonding in Coordination Compounds

22.6 Applications of Coordination Compounds

Key Learning Outcomes