

Chemistry 511 - Inorganic Chemistry
Fall 2004

Reserve List

The following references are on reserve in the Chemistry Library. The textbook for this course may not provide the explanations best suited to your learning style. These references are intended to serve as supplemental guides; specific reading suggestions may be given in class on occasion, but is expected that you will use whatever additional reading material as you find helpful.

Inorganic Chemistry, Shriver and Atkins

The most widely used inorganic text book in the U.S. A stronger section on reaction mechanisms than Meissler and Tarr (which we will use) but overall not an easily understood textbook.

Physical Inorganic Chemistry: A Coordination Chemistry Approach, Kettle

A nice supplement for much of the material we will cover in 511

Inorganic Chemistry, Huheey, Keiter, and Keiter

An excellent inorganic text. More comprehensive than Meissler and Tarr in many areas.

Inorganic Chemistry, Wolfsburg

Another text, much more detailed than Meissler and Tarr

Advanced Inorganic Chemistry, Cotton and Wilkinson

Comprehensive descriptive chemistry of the elements

Chemistry of the Elements, Greenwood and Earnshaw

Comprehensive descriptive chemistry of the elements

Atoms and Molecules, Karplus and Porter

A rigorous physical chemistry text with an emphasis on bonding

Symmetry and Structure, Kettle

A excellent, accessible treatment of symmetry for the less mathematically inclined

Chemical Applications of Group Theory, 3rd ed., Cotton

A mathematically rigorous presentation of group theory. This book is widely regarded as the most comprehensive text for chemists.

Symmetry in Bonding and Spectra, An Introduction, Douglas and Hollingsworth

Midway between Kettle and Cotton, this book provides a lot of depth in symmetry and its application to molecular orbital theory without too much mathematical detail.

Symmetry and Spectroscopy, Harris and Bertolucci

Another rigorous text covering symmetry, group theory, molecular orbital theory and spectroscopy. A "best buy" if you want a rigorous supplemental text; this book costs only \$15.

Principles of Bioinorganic Chemistry, Lippard and Berg

A very accessible textbook on bioinorganic chemistry.