

# Introduction for Module 11 – Reactions and Catalysis

Textbook: [Open Stax Chemistry 2e](#)

Suggested Reading: Chapter 15.1-15.3

Learning Objectives:

- Carry out equilibrium computations involving solubility, equilibrium expressions, and solute concentrations
- Write equations for the formation of adducts and complex ions
- Perform equilibrium calculations involving formation constants
- Describe examples of systems involving two (or more) coupled chemical equilibria
- Calculate reactant and product concentrations for coupled equilibrium systems

Captions and Attributions:

- 1) This square planar complex ion is formed from four ammonia ligands attaching to a copper (II) metal center. [Diagram of square planar](#) by [NCSSM](#) is licensed under [CC BY SA NC 4.0](#)
- 2) This octahedral complex ion is formed from six water ligands attaching to a copper (II) metal center. [Diagram of octahedral](#) by [NCSSM](#) is licensed under [CC BY SA NC 4.0](#)



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