

In this chapter, we examine a range of complex systems and consider how living systems keep the concentration of important chemical species at a reasonable level (for example, by buffering the pH); how they use differences in concentrations of chemical species to drive cellular processes (like thought); and how reactions that release energy (by forming more stable compounds with stronger bonds) can be coupled to reactions that require energy in order to occur.

- 9.1: Systems Composed of One Reaction
- 9.2: Buffered Systems
- 9.3: Amino Acids, Proteins, and pH
- 9.4: Coupled, Non-Equilibrium Reaction Systems
- 9.5: Energetics and Coupling
- 9.6: In-Text References

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