

CHAPTER OVERVIEW

17: Electrochemistry

An General Chemistry Libretexts Textmap organized around the textbook

Principles of Modern Chemistry

by Oxtoby, Gillis, and Campion

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Electrochemistry is the study of electricity and how it relates to chemical reactions. In electrochemistry, electricity can be generated by movements of electrons from one element to another in a reaction known as redox reaction, or [oxidation-reduction reaction](#).

Topic hierarchy

- [17.1: Electrochemical Cells](#)
- [17.2: The Gibbs Free Energy and Cell Voltage](#)
- [17.3: Concentration Effects and the Nernst Equation](#)
- [17.4: Batteries and Fuel Cells](#)
- [17.5: Corrosion and Its Prevention](#)
- [17.6: Electrometallurgy](#)
- [17.7: A Deeper Look: Electrolysis of Water and Aqueous Solutions](#)

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