Problem Set 12

Reading

Chapter 20.1 - 20.5

Exercises

Chapter 20: 29(Include a Cell Diagram and Sketch a Picture of the Cell), 30(Include a Cell Diagram and Sketch a Picture of the Cell), 33, 35, 37 (a,b), 43, 44, 55 (a,b).

Additional Exercises

1. The standard reduction potential for the reaction:

\[ 2 \text{D}^+(aq) + 2 \text{e}^- \rightarrow \text{D}_2(g) \]

where D is deuterium, is \(-0.0034\text{V}\) at 25°C. Calculate \(E^o\) and \(K\) at 25°C for the reaction:

\[ 2 \text{H}^+(aq) + \text{D}_2(g) \rightarrow 2 \text{D}^+(aq) + \text{H}_2(g) \]