

Homework Assignment

(Due 9/24/10)

- Calculate the potential needed to plate out 99% of the Cu^{2+} in an approximately 0.1 M solution at pH 1.00 assuming a 0.2 partial pressure of O_2 (20% O_2 at 1 atm)
- Do the same calculation for Pb^{2+} ($E^\circ = -0.126 \text{ V}$)
- Do the same calculation for Cd^{2+} ($E^\circ = -0.402 \text{ V}$)
- At what potential will all 3 metal ions plate out?