

MSE-441 Exercise-7

Exercise 1:

Try to determine the diffusion coefficient for $[\text{Fe}(\text{CN})_6]^{3-}$. The reduction of $[\text{Fe}(\text{CN})_6]^{3-}$ is done in a RDE setup with a 2 mm diameter Pt disk. The concentration of $[\text{Fe}(\text{CN})_6]^{3-}$ is 0.005 mol/L and $[\text{Fe}(\text{CN})_6]^{4-}$ is 0.005 mol/L. The temperature and viscosity of the reactant solution is 20°C and 0.01 cm²/s.

