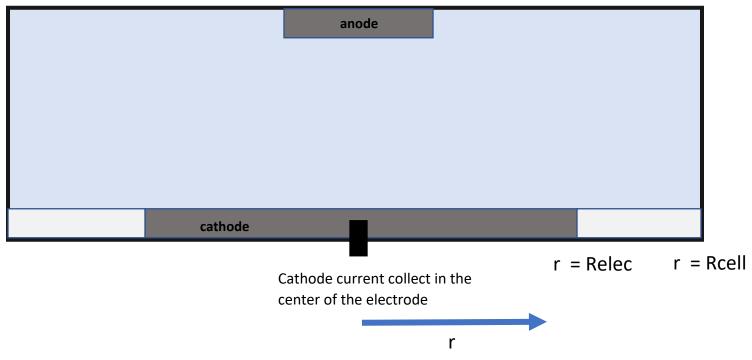
CH692 in class w5d1

Current distributions in electrodeposition.

Consider the following cell geometry. Sketch qualitatively the profile of electrodeposited material as a function of position r radially from the center of the cell for the following conditions. *Discuss exactly the physical reasoning you used to predict the behavior.*

Anode, assume uniform potential in anode



- a) Wa >> 1 and $\chi >> 1$
- b) Wa < 1 and $\chi \gg 1$
- c) Wa >> 1 and $\chi < 1$
- d) Wa < 1 and χ < 1, Wa = χ
- e) Wa < 1 and χ < 1, Wa >> χ
- f) Wa < 1 and χ < 1, Wa << χ