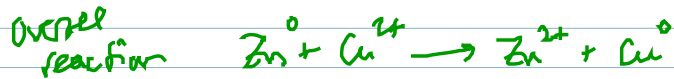
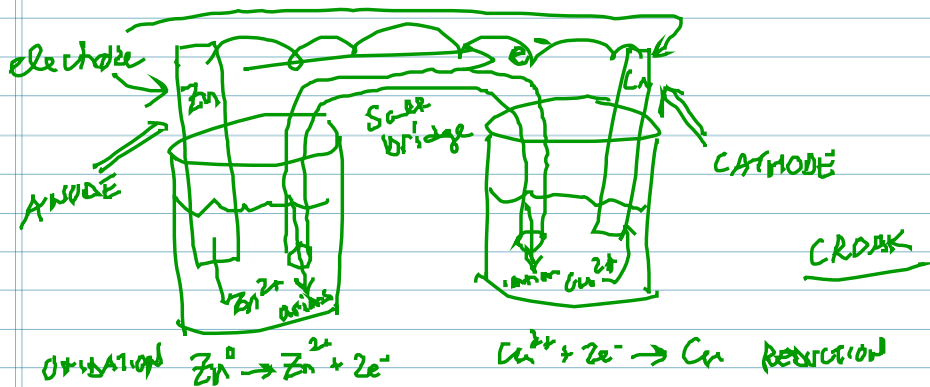


ELECTROCHEMICAL CELLS "galvanic cells" "voltaic cells"
 → use a spontaneous redox reaction
 chemical E → electrical energy

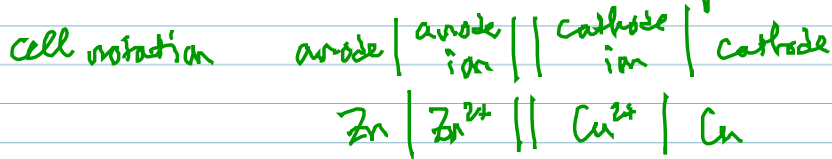


Zn electrode is losing mass, $[Zn^{2+}] \uparrow$
 Cu electrode is gaining mass, $[Cu^{2+}] \downarrow$

electric current flows through the wire from the anode to the cathode because of a difference in reduction potential (FORCE)

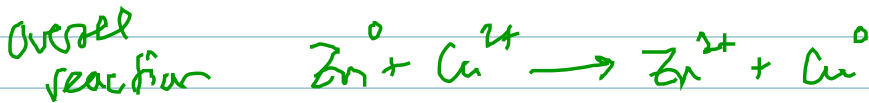
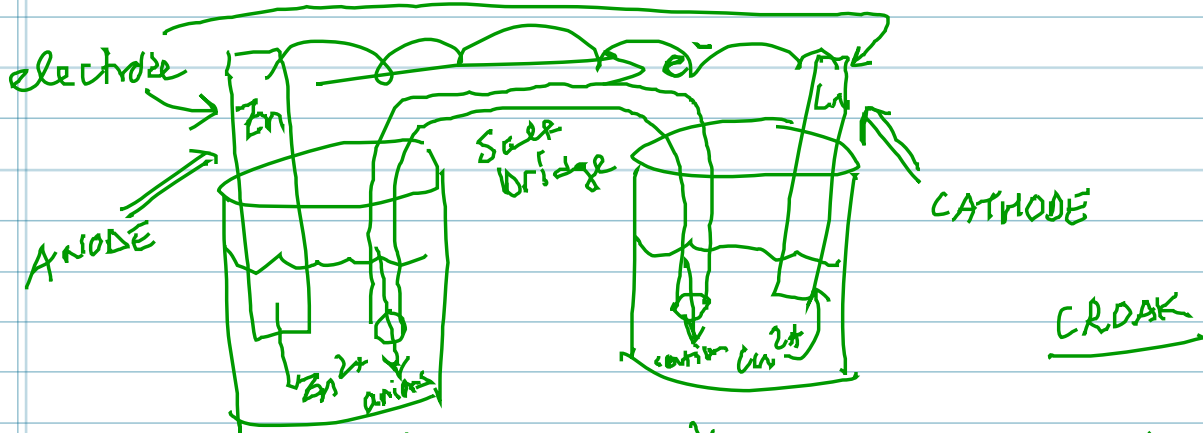
pull on the electrons → measured as VOLTAGE

voltage → emf → electrical potential



ELECTROCHEMICAL CELLS "galvanic cells" "voltaic cells"

→ USE a spontaneous redox reaction
 chemical E → electrical energy

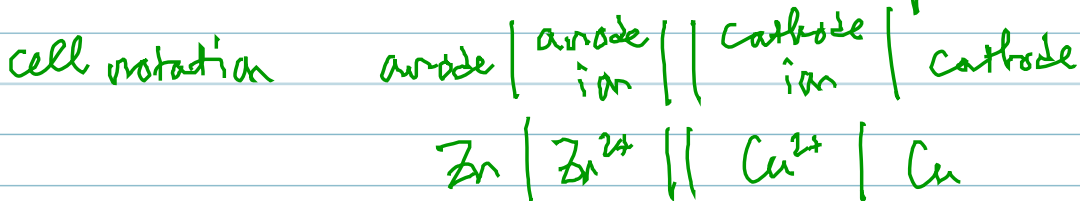


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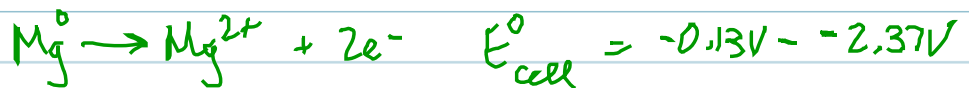
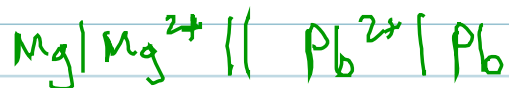
voltage → emf → electrical potential



$$E^{\circ}_{\text{cell}} = E^{\circ}_{\text{cathode}} - E^{\circ}_{\text{anode}}$$

$$= 0.34V + 1.076V$$

$$E^{\circ}_{\text{cell}} = 1.10V$$



$\text{Br}_2(\text{l})$ is dripped into an aqueous mixture of NaCl & NaI .

What happens?

