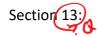


November 26, 2024 4:51



R? Q: Yes on my notes it was Section 12: "...this chapter is terrible" - so yes it is Section 12
And for Section 13: "I'm so funny... to discuss a few things... before we can drive into electrochemistry"
... so sorry I was thinking of that note I had on hand to be related to electrochemistry - but here is the true comments of Section 12 and Section 13....

Splitting up oxidation and reduction

The aluminothermic reduction of iron reaction (Reaction 10) is a nice stepping stone to transition into the business that this chapter is supposed to be about: electrochemistry! You see, as the name implies, iron is being reduced. This means that iron is gaining electrons (perhaps you've heard that LEO the lion says, "GER," reminding us that we Lose Electrons in Oxidation and Gain Electrons in Reduction). We can write out just the most simple thing that is happening to iron in the reaction

Fe₂Q₃ + 2 Al²
$$\rightarrow$$
 Al₂Q₃ + Fe²
 $2^{\frac{7}{4}}$ $\frac{7}{6}$ $2^{\frac{7}{4}}$ $\frac{7}{6}$ $\frac{7}{2^{\frac{7}{4}}}$ $\frac{7}{6}$ $\frac{7$

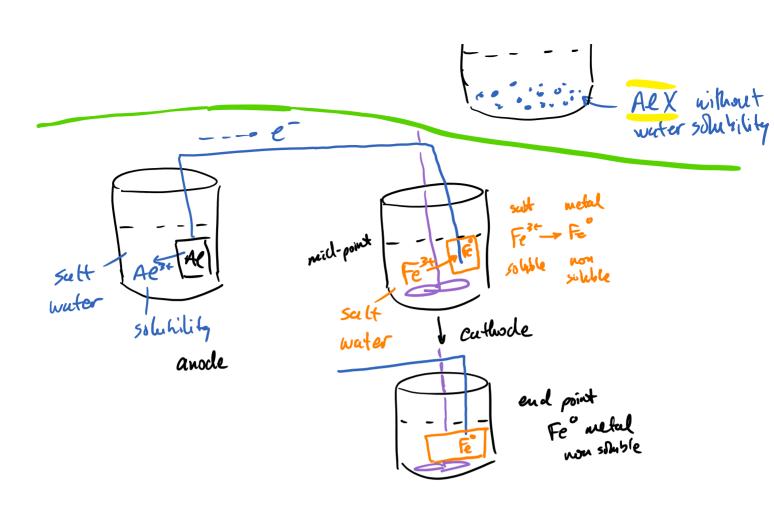
liquid Aprocess battery

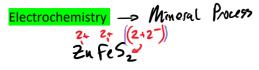
salt research soluble Al, solid state

we add salt /X

we add salt /X

charical





Zinc - iron- salfur

oxygen

how to mix? require heat?

solubility - 4 Zn2+ 8 H2SQ4 "

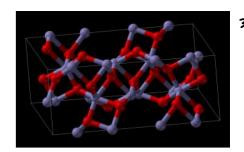
solubility - 4 Zn2+ 8 H2SQ4 "

separated 2 Fe203 - low solubility

1 and 5 th 2 Sq 4 th 2 Sq 4

2 Fe° + 302

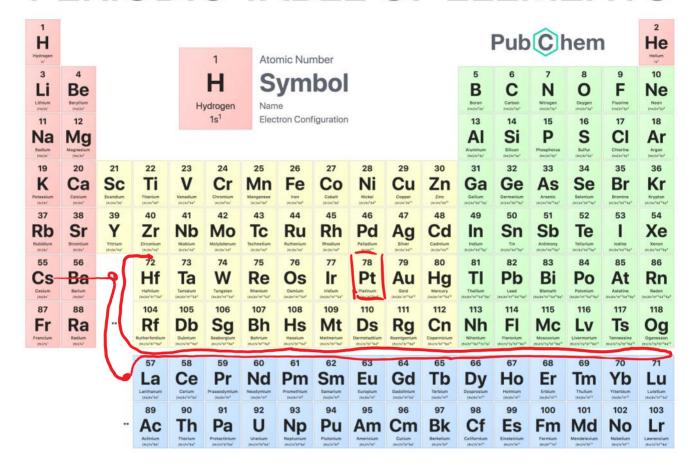




Reduction Reaction	E° (V)
$Li^{+}_{(aq)} + e^{-} \rightarrow Li_{(s)}$	- 3.045
$Zn^{2+}_{(aq)} + 2e^- \rightarrow Zn_{(s)}$	- 0.763
$Fe^{2+}(aq) + 2e^- \rightarrow Fe(s)$	- 0.44
$2H^{+}(aq) + (2e) \rightarrow H_{2}(g)$	0.000
$Cu^{2+}(aq) + 2e^{-} \rightarrow Cu(s)$	+0.337
Pt ²⁺ (aq) + 2e ⁻ → Pt(s) platiou	+ 1.2

 Table 1.
 Standard reduction potentials for a few half-cell reactions.

PERIODIC TABLE OF ELEMENTS



Re-Introduction

Chemicals