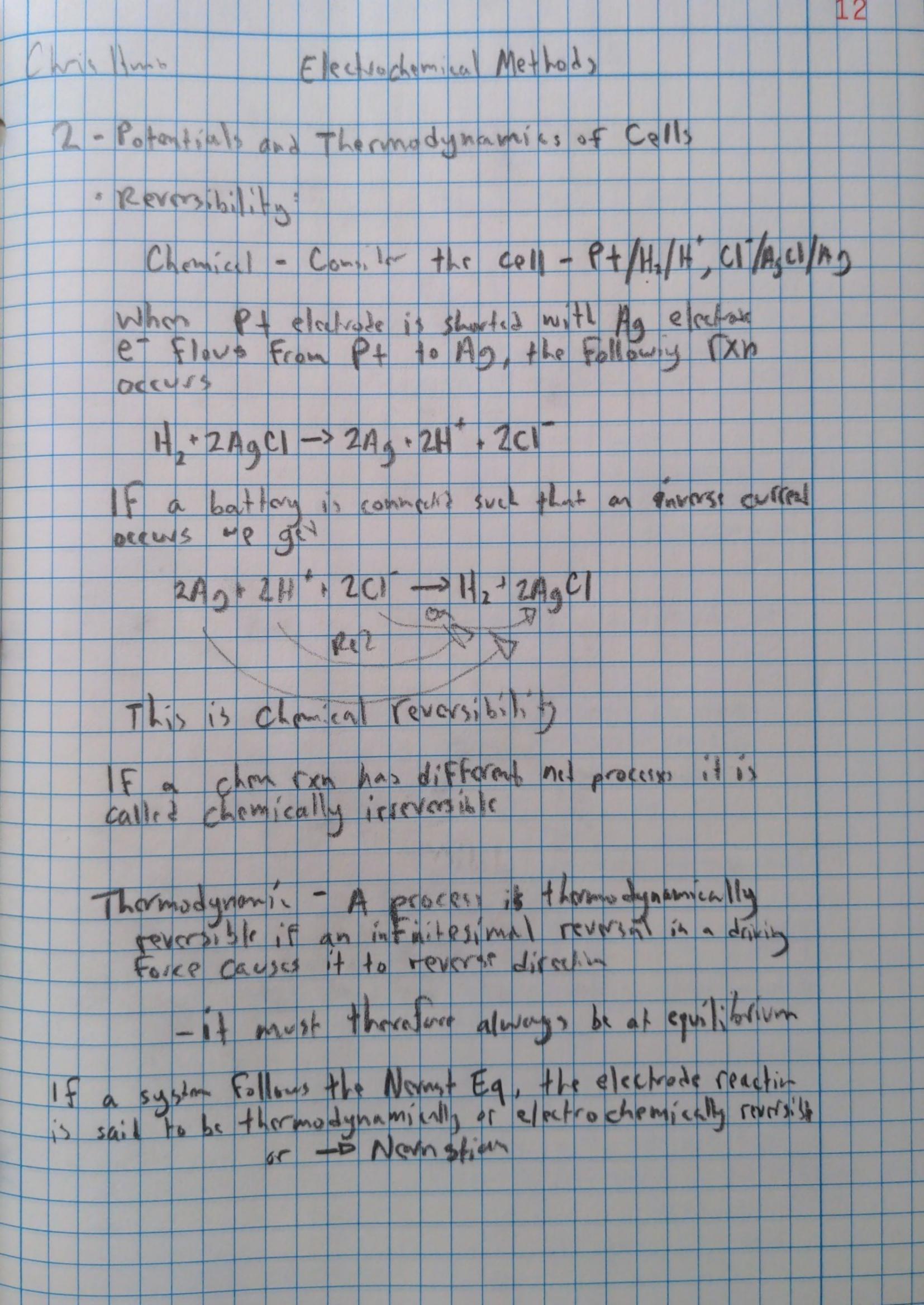
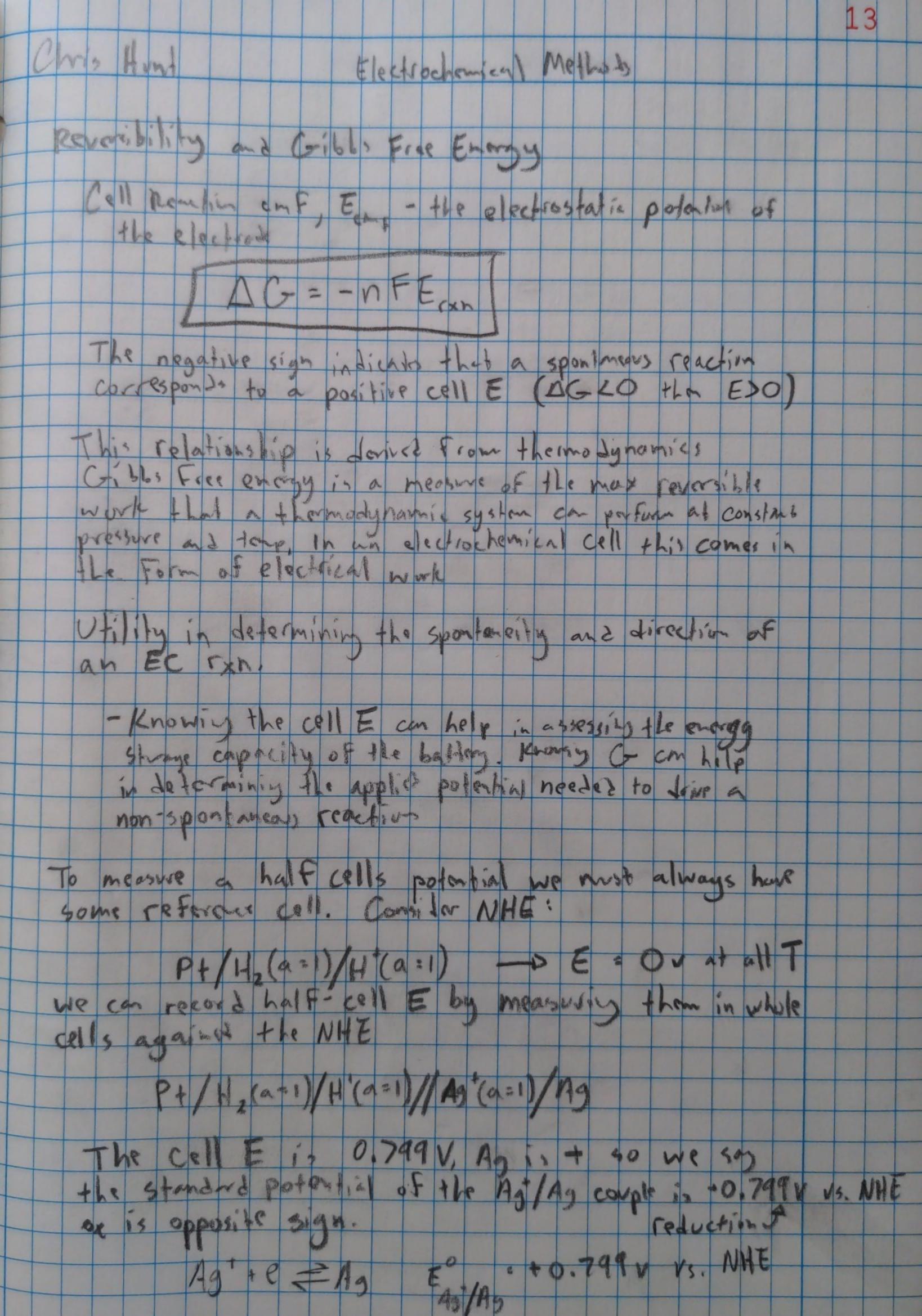
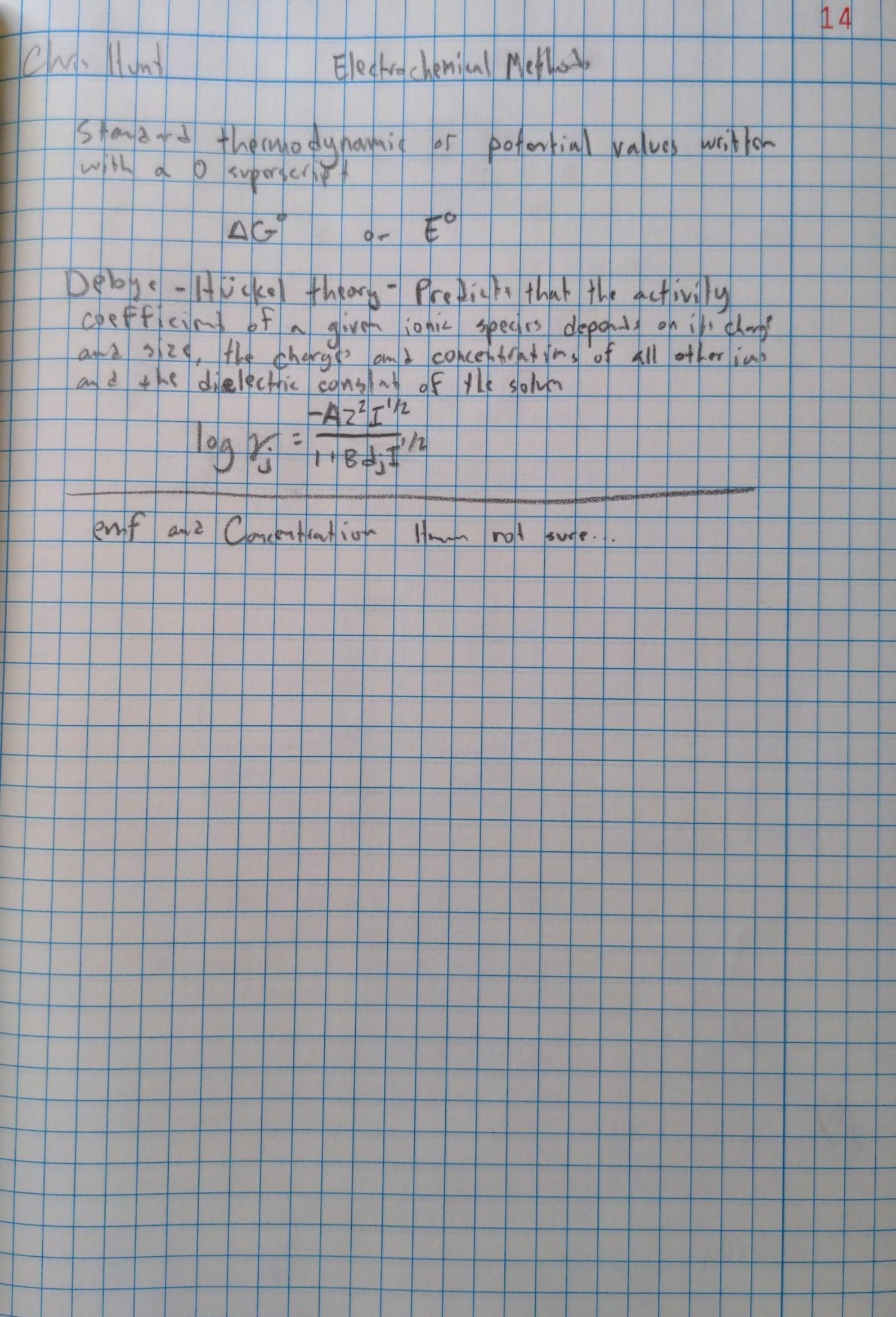
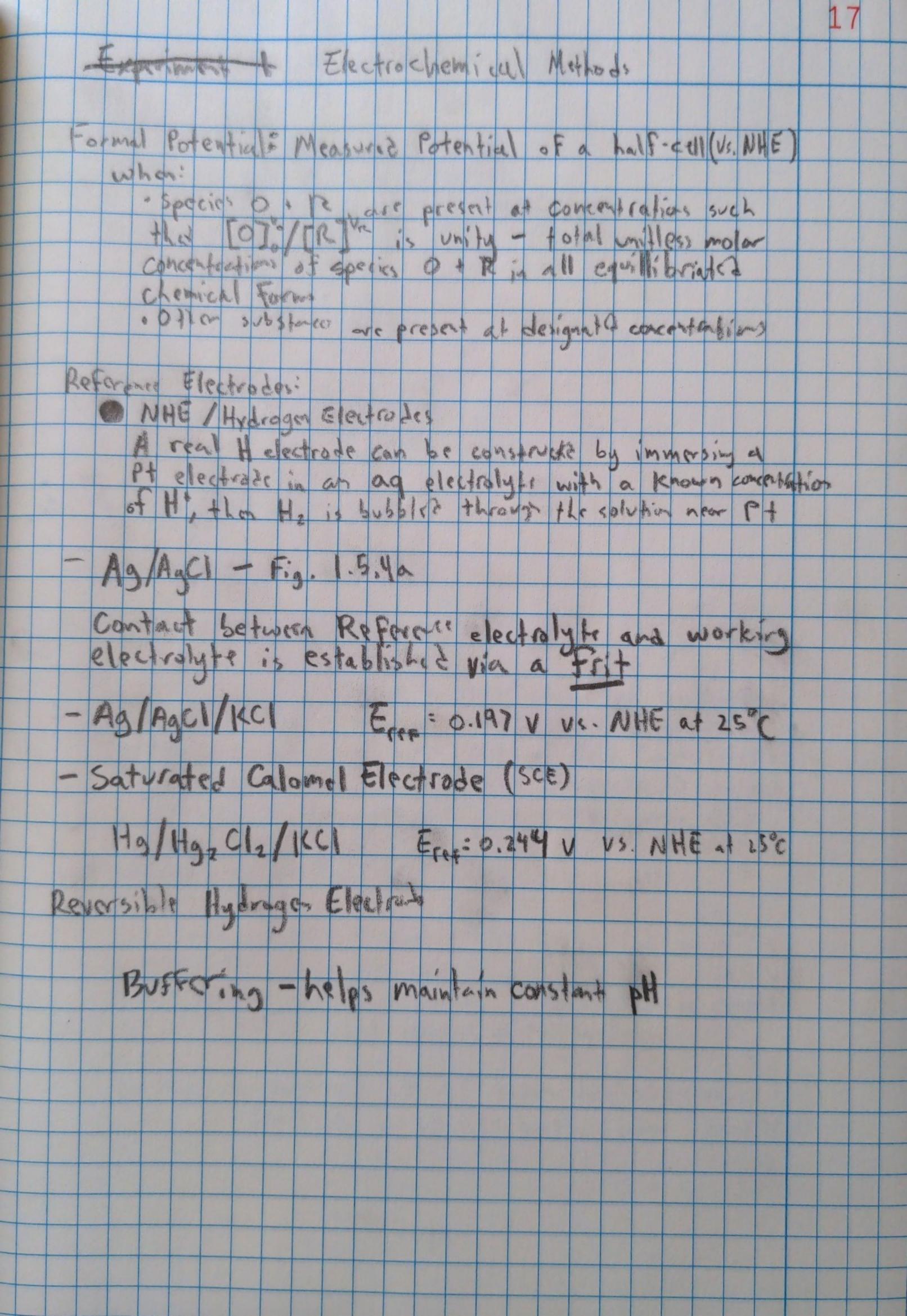
Chris Huzz Electrochemical Metho 23 By Measuring the change in current we gain these insights 1. Reaction Kinetics: We can understand the rate at which redax reactions are occurry This helps us understant how quickly a substant is being ox or ted 2. Electroactive Species Concentration: The magnitude of the current observe often relates to the concentration of electroactive species according to Foraday's Low Allows quantitative analysis 3, Reday behavior on & Reversibility. The shape of the i-E curve tell us about the redox behavior of the analyte A reversible reaction will produce reactions will have a symmetric peaks 4 Electro chamical Mechanismi Current response can help infor Touting Gives in sight into reaction intermediates and papeling 5. Diffusion Coefficients: The current at the peak of CV work is proportional to the sqrt = 0.446 = FAC (FUDO) Calculage the line be vice Colculate the diffesion coefficient 6, Electrocatalytic Activity: I dentity potential windows where contain materials exhibit catalytic activity formals specific redox rxn.









Chis Hund Electrochemical Methods 2,2.1) The Physics of Phase Potantials Electric Patential Ø(x,y, ?)= x 4,2) -F.gr Janky terricy anile is cegnos Forocyanide is oxidized. 2, 2,5) Fermi energy and Absolute potential a) absolute scale - define a redox couple at equillibrium interms of half-renctions where et are in vocuo
relox couple at equillilrium rate of Rez and rate of
Ox are equal. Concentration of Ox/Rez do not
change O net potential. Max entropy min DC b) equivalence of Fermi la Formi level -> highest energy level that WRT EC -> Diff between 2 porcio of in contrat Redox - movement of e From higher Fermi Icvel to a species with lower Ferm

