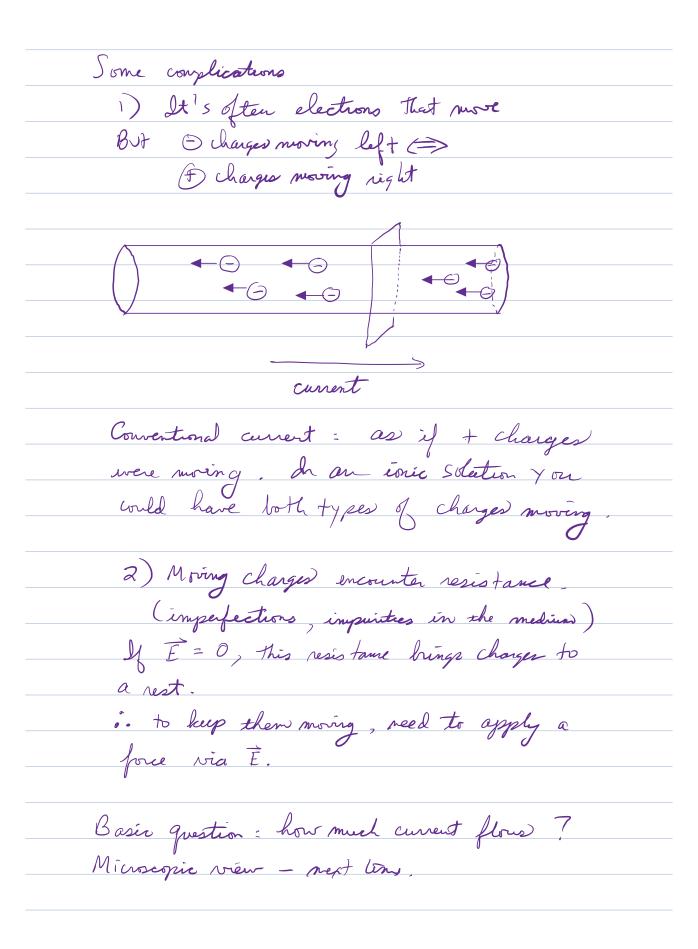
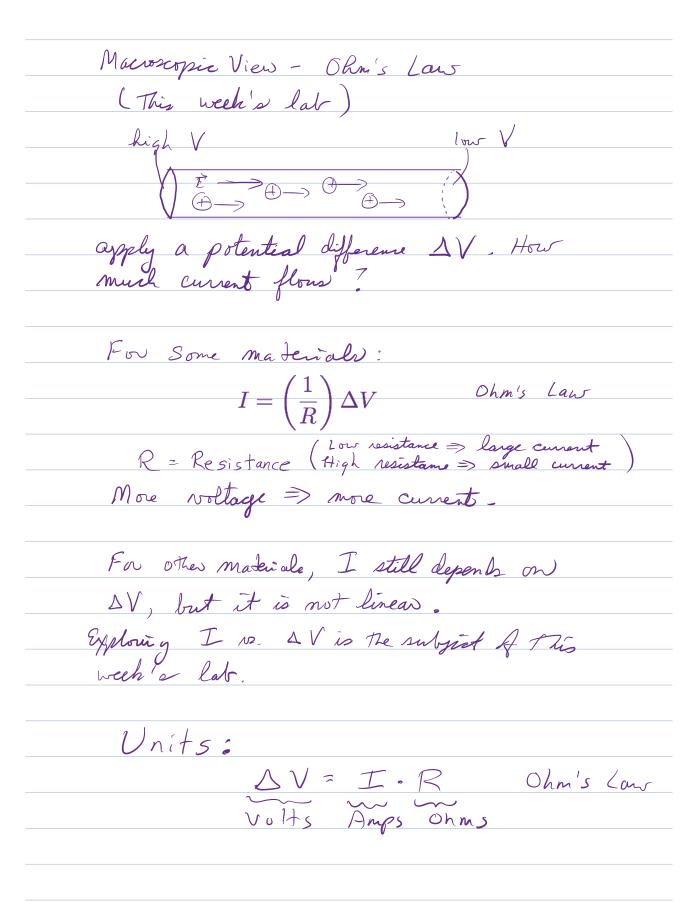
 We now consider systems out of equilibrium.
an electric field? They tend to move.
l.g. Consider a wire
Current
Court how many charge AQ
pass through this surface in
atme st
* -
Define current $I \equiv \triangle Q$ $\triangle t$
Units: Coulombs = Amperes = Amps = A.
Common units: 1 m A = 10 A
Household circuits \$ 20 A or 30 A.

Chapter 22: Current and Resistance





Ohm 2 Volt 1 Amp Common multiples: 1k 1 = 10 3 1 1M2=1062 Ty fical lab values $I \sim 10^{-3}A = 1 m A$ R~1032=1k2 V~ I.R~ +V