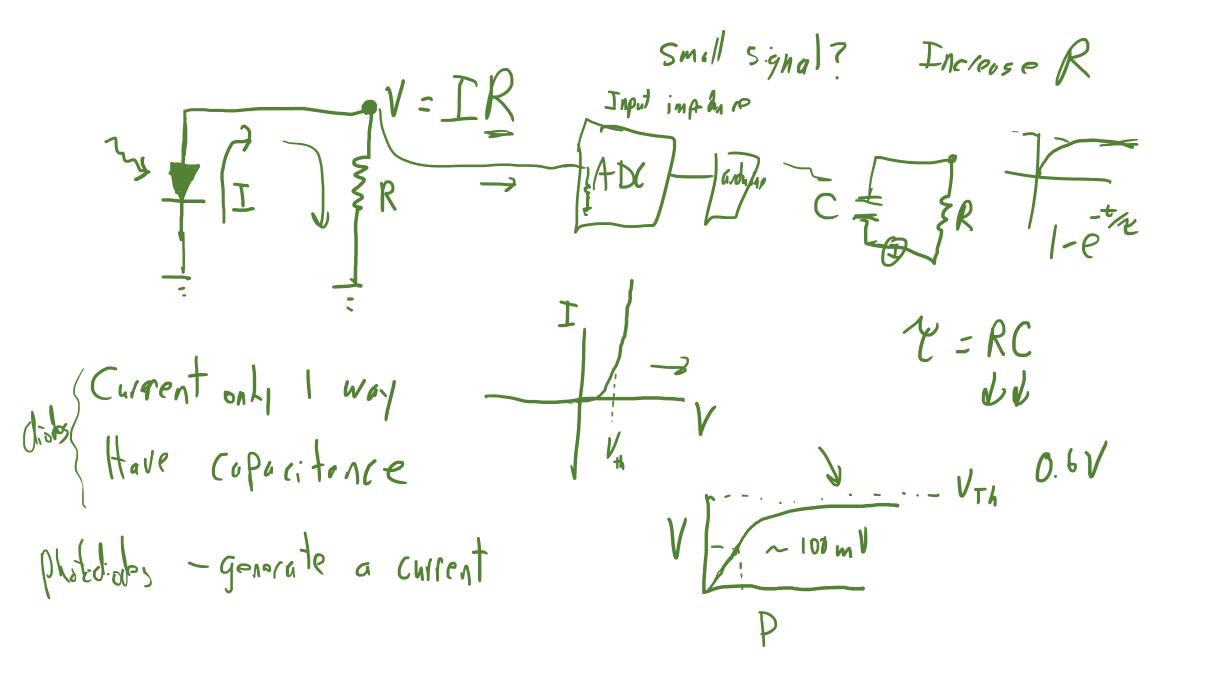
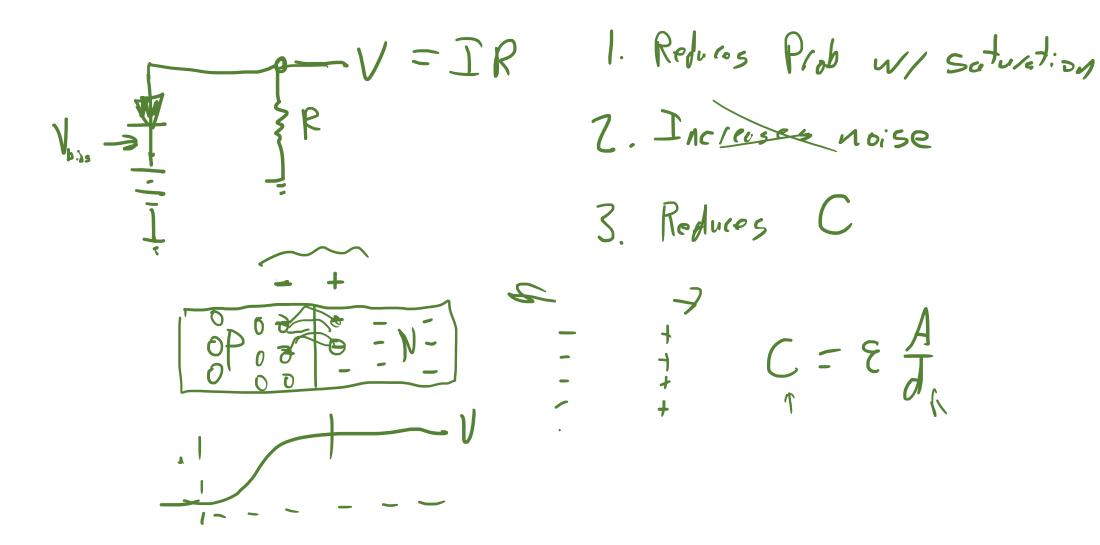
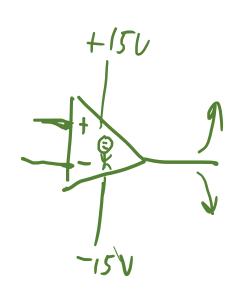
## Lab Meeting Dec 2, 2021

## Optical Power Meter

- Goal design parameters
  - Wavelength range: 405 nm 800 nm
  - Power range: 0.1 mW up to 400 mW
  - Precision: 3 sig figs
    - Up to 400 mW with micro-watt precision.... 400,000 = 19 bits
    - 16 bits plus 10x attenuator
  - Hand held, battery powered, with display
  - Controller and wand
  - Home
  - USB interface???
  - Input for wavelength, calibrate
- Design (Electrical)
- Breadboard, calibrate, and test
- Revise
- Mechanical Design
- Tests







$$V_{in} = -\frac{1}{R_s} = -V_{in}$$

$$F = V_{in}$$