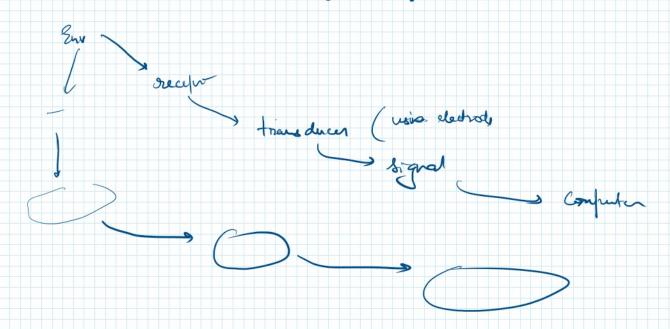
5. Sensors, Types of Sensors

17 November 2023 08:59

SENSORS

· Detects and responds to some certain types of inputs from the environment Input examples: Moisture, molecules, light, heat, gas etc.



TYPES OF SENSORS

S: Semiconductor sensor

O: Optical sensor

M: Mass-sensitive senson

E: Electrochemical sensor

C: Conductivity sunson

C: Capacitive senson

C: Calonifie sensor

T: Thumpsensitive senson

Eq: dolar cells

Eg: Ga-As, Ge-Si, photodetective senson

Eg: Piezo device

Eg: O2 senson, glucose senson

Eg: Pt electrode

Eq: Jouch screens, polycarbonate, holyester

Eg: Bomb calonimeter

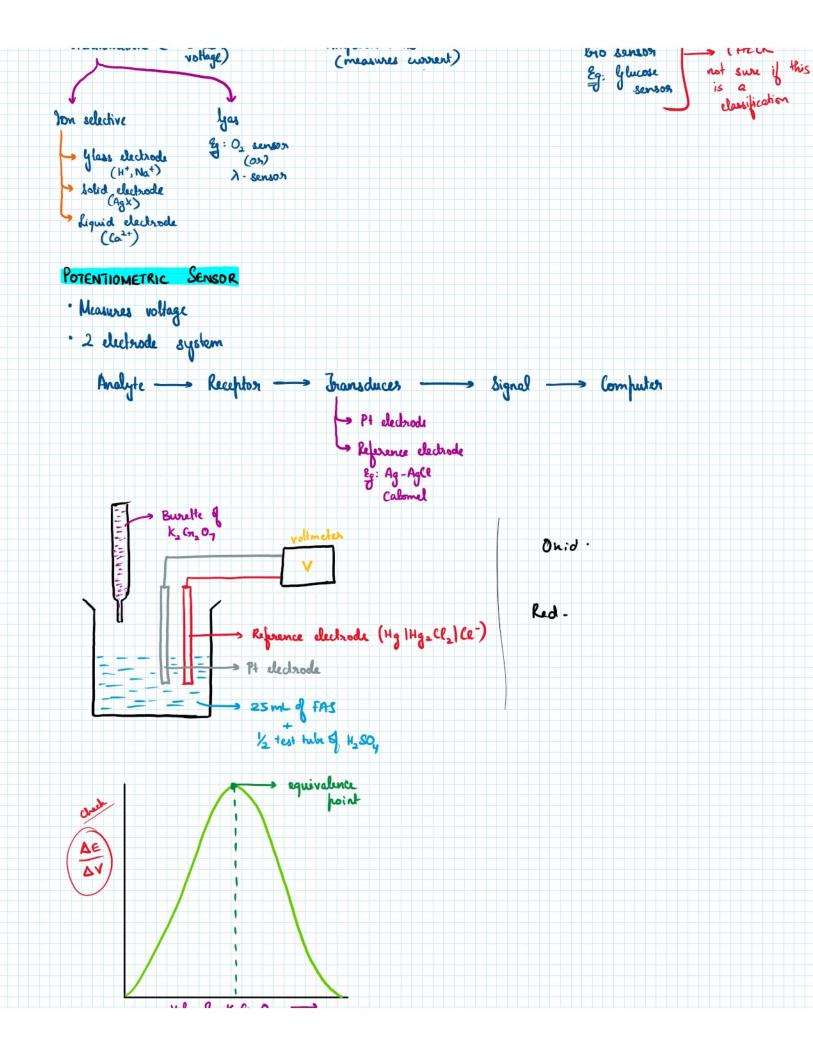
Eg: Thermostet

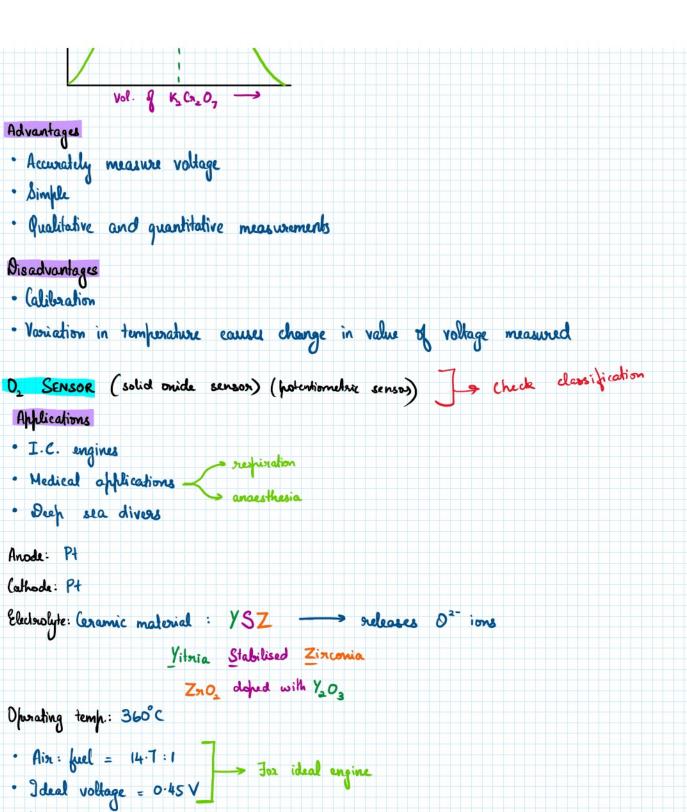
ELECTROCHEMICAL SENSORS

Potentionnebric (measures voltage)

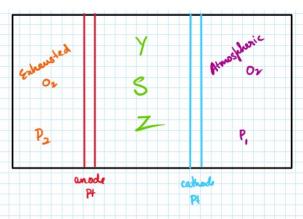
Amperometric (measures current) electrochemical bio sensor Eg. ylucose

not sure if





· Using lead-free gasoline



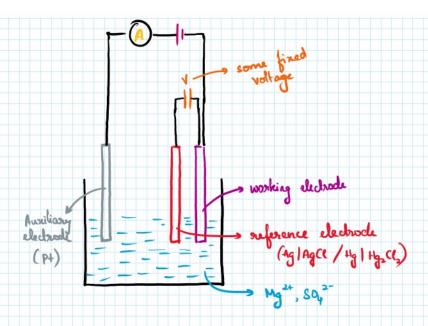
Equations

Disadvantages

- · Jailhipe emission
- · Hesitation on acceleration

AMPEROMETRIC SENSOR

- · Measures wovent
- · 3 electrode system



Advantages

- · simple to construct
- · Qualitatively and quantitatively measure

Disadvantages

· -ve voltage leads to events due to liberation of H2

BIOSENSOR

GLUCOSE SENSOR

· Amperometric senson

