

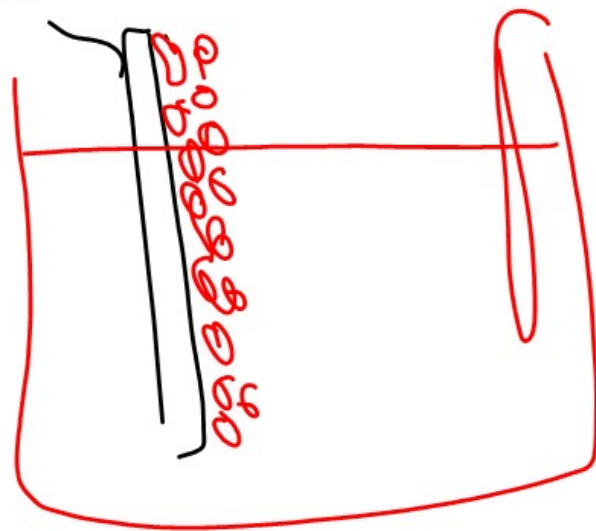
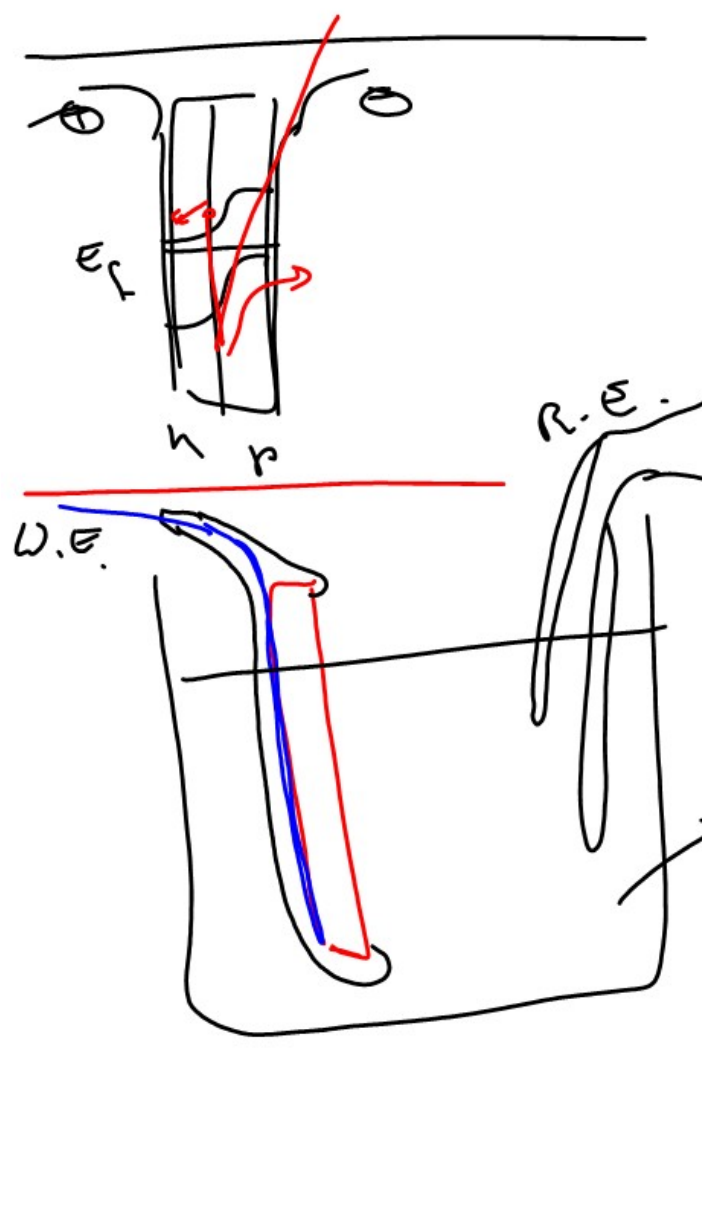
CdS	find XRD pattern
CuS	① show how it changes with particle size
ZnO	② lattice parameters
GaAs	

$\lambda = 1.5 \text{ \AA}$



$$d = \frac{a}{\sqrt{h^2 + k^2 + l^2}}$$

Nanotechnology in Solar Energy

U.E.

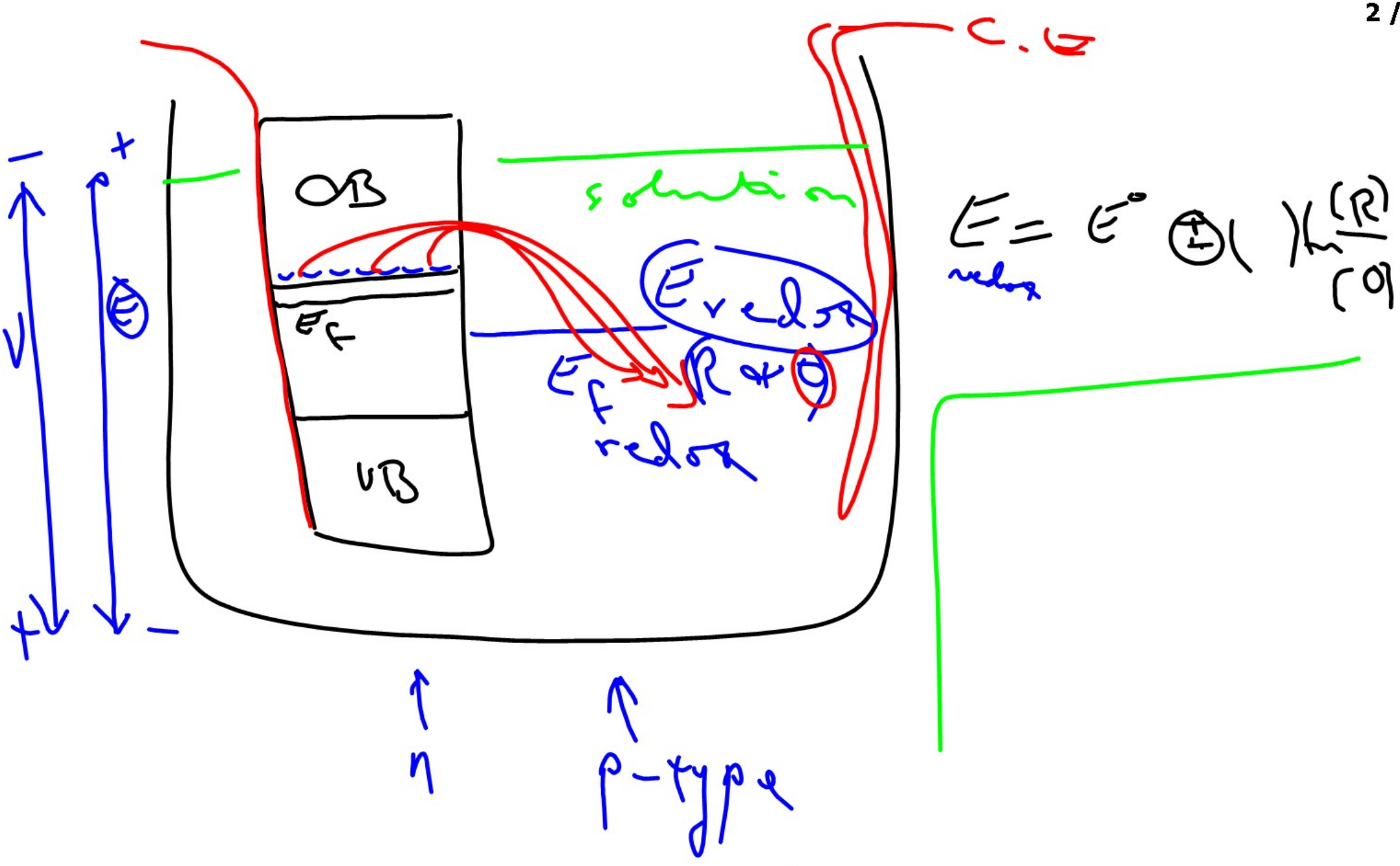
R.E.

C.E.

Redox Couple Solution

$$\frac{(\text{Fe}(\text{CN})_6)^{3-}}{(\text{Fe}(\text{CN})_6)^{4-}}$$

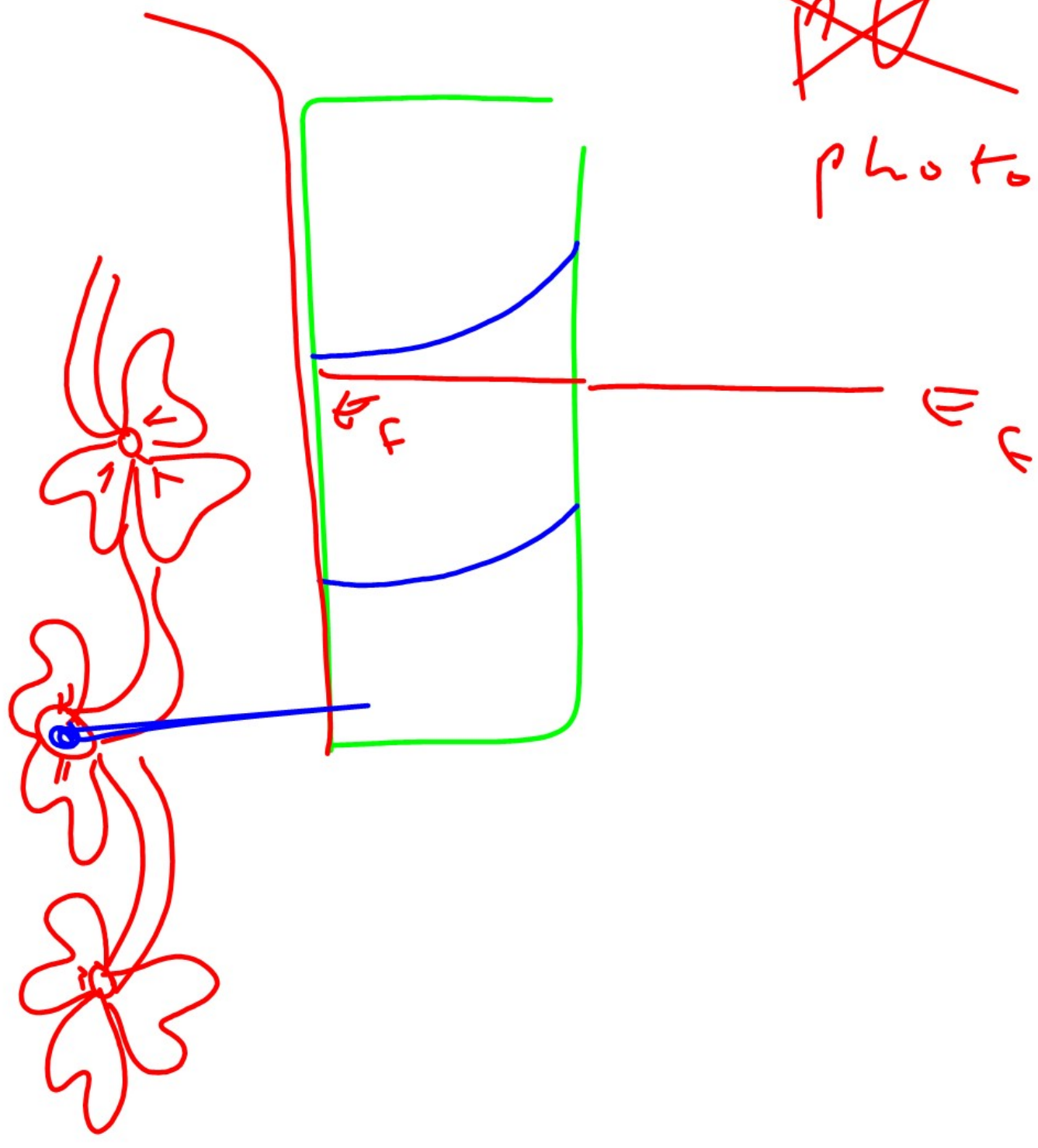
$$\text{I}_2/\text{I}^-$$



$$E = E^{\circ} + \frac{RT}{nF} \ln \frac{[R]}{[O]}$$

~~PH~~

photoelectrochemical system



PEC

