

- too basic medium > leads to formations of metal onides metal hydronides ? affects the Quality of plating.

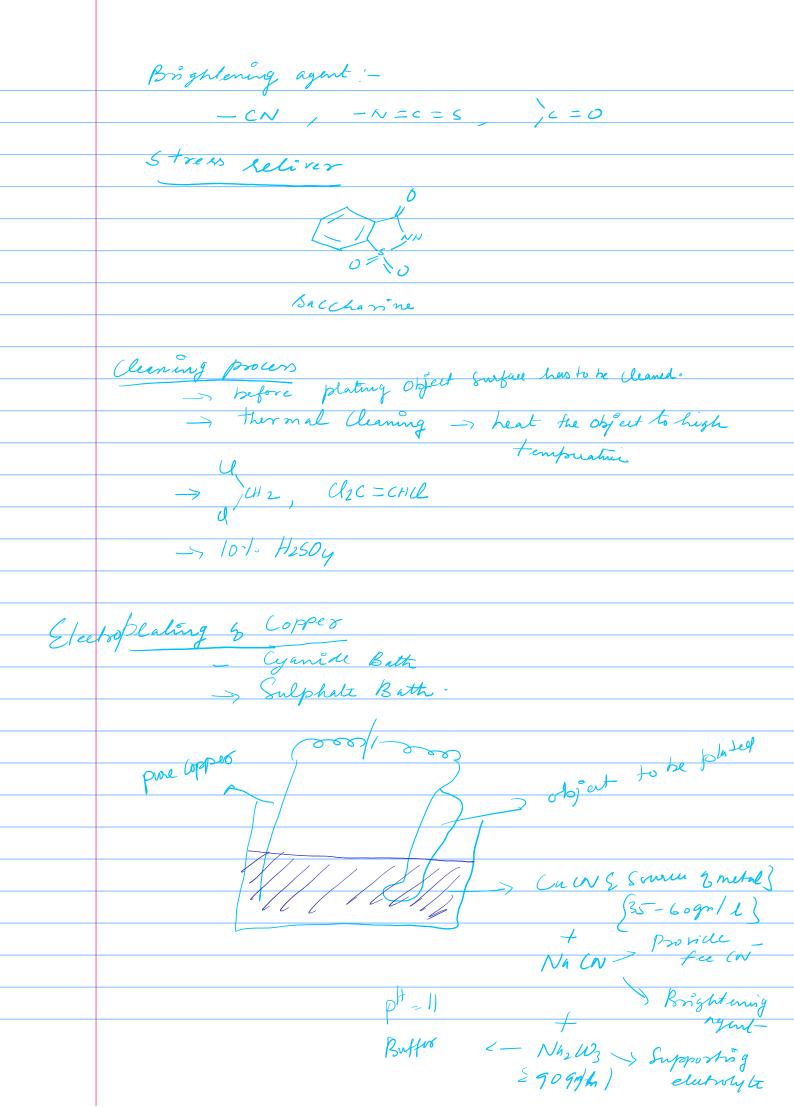
Sommonly we use \$\phi^{\frac{1}{2}} 4 - 8 for plating 3. Wetting hyant!
ligwid

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metal Surjane lignid

Lontart angle 450 Gueface energy Surface tensus Surface energy & Surface Ametal was H2 will block the metal son from & undergoing Reductions H2 gas will leave the Sneface of electrode when they are o king Somall > bubble will not grow larger $C_m H_{2n+1} Soy Na^{\dagger}$ n = 8 - 18most commonly Used Wetting agent is Sodrum lawryl Sulphate n = 12, C12 Fl25 SOG Nat



H0rign mut) cleet whating & lopper is -> laste late 12/1/2021

Electroles plating - Reduction of metal ion with out electricity -> Reduction takes place with the help of 7 Substrate Redution & metal ion by Chemical agent object Surface Control
with Pd Catalyst Cusoy [Sme of I tab/ bont men formaldehyde is going to be a leduing agent in bone medium in presence Pd Catalyst

H20 + 5H > HC00 + H20+1/2 H2 + 1e HCHO+20H Pd HCOO+ H20 + 1/2 H2+1E 2 HCHO+40H Pd 2HCOO +2H20 + H2+2E 2 H 40 + 40 + + 4 Pd > 2 H 600 + 2 H 20 + H 2 + CM proces of making friented Circute Board: SPCB? lamination by material photo was Circute Board To this patter 13 La Bourd Snd2 + Pdd2 -> Snd4 + Pd

Pd in Colloidal State boy it plate ar wing