CATALYSIS 2M05 Thursday, July 21, 2022 3:44 PM 9t stebilises Solution, so that they are miscible. Emulsifying agent:oil non polar Starch, Starch, gelatin, not missible 6 /W

 ω/o Emulsifying lampblack Starch, gelatin proteins yent:

oil N20 oil non polar

120 -> Polar

miscible

Catalyst: a subs. Which can change (Tor L)

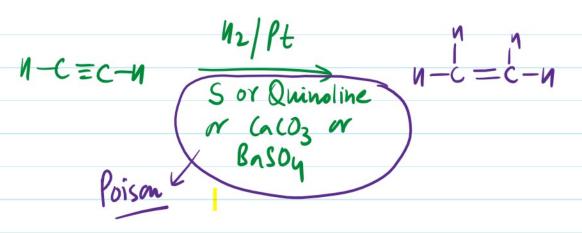
speed of a TXN.

mass & chemical composition

not change also the TXN. of Catalyst do

not change after the oxn. ξ_X : $KCIO_3 \longrightarrow KCI + O_2$ Without Cetalyst; Nigh temp required KCI 03 — KCI + 02 with cetalyst: 8x n occurs at lower temp. & faster rate. -> Promoter & Poison: Deromoter: 9+ 1's activity of cetalyst 5+ enhances activity of cethyst Ex: $N_2 + 3N_2 \longrightarrow 2 NN_3$ $N_aber's$ procen: (etalyst: Fe

Promoter: Mo
(Molybdenum) 2) Poison: 9+ 45 activity of cetalyst. $N-C \equiv C-N \qquad \frac{N_2/\rho_t}{\left(N-c=c-N\right)} \qquad N-c^N-c^N-c^N-c^N$ 12/Pt 19 19



Nomogenous & heterogeneous cetalysis:-

1) Namogenous Cetalysis: When reactant & Cetalyst are in Same phase.

Ex: Nydrolyhis of Ester:

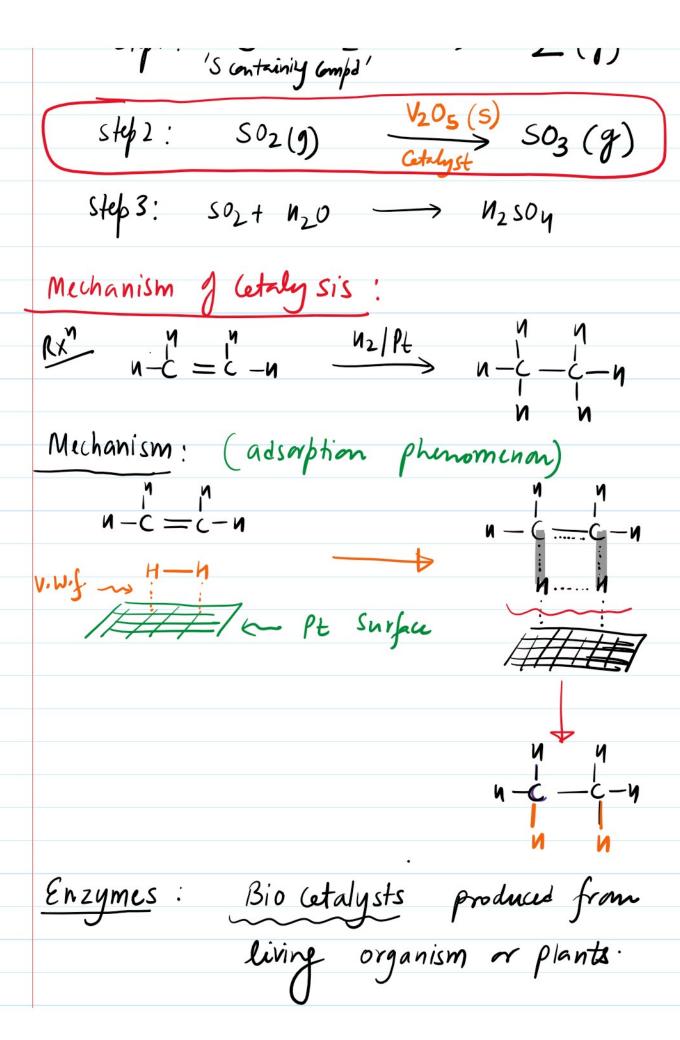
2) Meterogenous cetaly sis: - when reactant & Cetalyst are present in different phose.

$$\underbrace{(1)}_{N_2 + 3N_2} \underbrace{(3)}_{(9)} \underbrace{2NN_3(9)}_{2NN_3(9)}$$

2 Contact process of many facture of sulphunic aud:

Styl:
$$5 + 0_2 \longrightarrow 50_2$$
 (9)

Styl: 'S containly compd'



~> Enzymes cetalyse biological rxns (bio-Chemical σx^{n})

Ex: Inversion of Cone super

(Super) Invertage Glucon + Fructose

(Super) Mot

[acto bacidli

2) Milk (Enzyme) Curd Properties of Enzymes:-1) Highly efficient :- Even a single monache J'Enzyme con catalyse million of rectant molecules per minute. D <u>Nighly Selective</u>: one Enzyme con cetalyse Single r∞h. 3) optimum pu & temp: :optimum temp: 25°-37°C ophimum pH: 5-7 my Enzymes are Colloidal Solun in water