3 Bond dissociation Energy	
Energ Required to Break any is known as Bond di	Particular Band ssociation Energy
EX: For CH4	(BDE)
(-11) - CH4 CM3 + H°	
$\begin{array}{c} C H_{2} \longrightarrow C H_{2} + H \\ C H_{2} \longrightarrow C H + H \end{array}$	ΔH_2 ΔH_3
Chi————————————————————————————————————	014
Bond Energy (C-h) =	DH1+DH2-1DH3-DH
Mote: - 13 and Energy is aven	me of B. F. Energy.

Reaction intermidiate

Species obtained during any Reaction between Reactout & product is known as Reaction intermidiates.

(ii) Carbonation
(iii) Carbonation
(iii) Carbonation
(iii) Carbonation
(iv) Carbonation
(iv

(V) Nitsere N-M
(VII Berzyne O)

Carbocation Corbanio 4 © C 113 E/12

Corbon fre Radiu

=> Trivalent

=> Incomplete och

=> Highly mistable

=) Kijhly Reactive

Homolytic Bond

Fight on

=> Usvally formed

in gas phase

```
=)3P = 3
        (Bond pair)
    \Rightarrow m) \cup P = 1
            Unpaired (1)
 =) /p = 0
     (Lone pair)
\Rightarrow mm = \sqrt{\gamma(\gamma+2)}=\sqrt{3}
               Magnitic Moment)
= 1.732 BM
    = 3  5  = 2 | 5 | +1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 | 1+1= 2 
      Spin Multiplicity = 2
             1 unjainer S= {
```

=> Doublet Carbon intermidiate => Sp2 hybridination > Trigonal planer 12° 7 F. 120 =) Bond Myle = 120°

Electronic Displacement effect

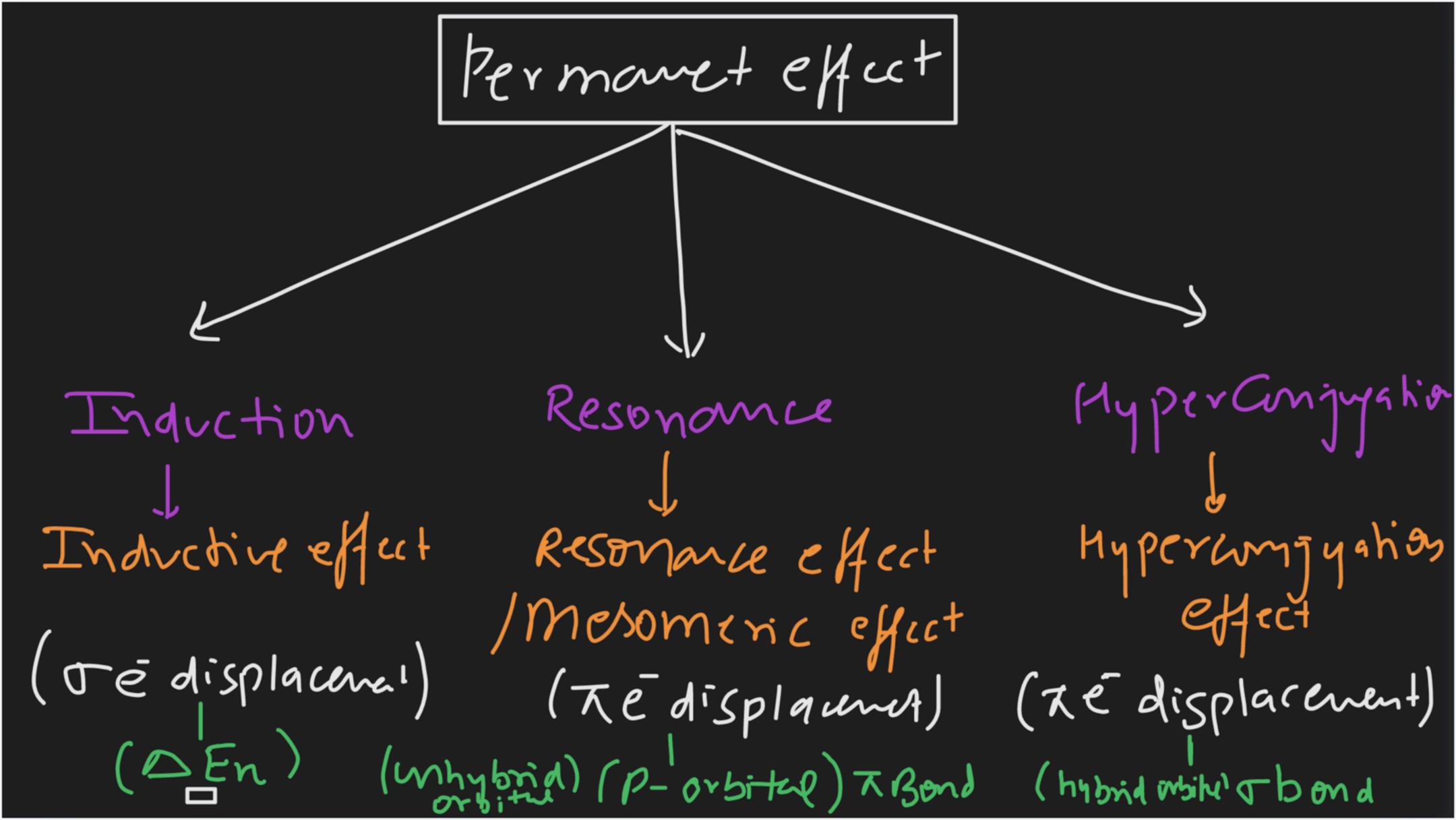
Tempony effects

Such effect appears only in Prince of Some external Rulent 4 in absume of that Regent that effect disappear

Permanent effect)

Effects which are independent are known as fermant excus.

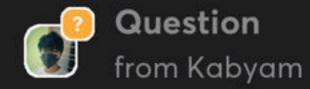
Elechomenic Induction eHcct 1 emporm displacement in Aveto some Repent T es due to some

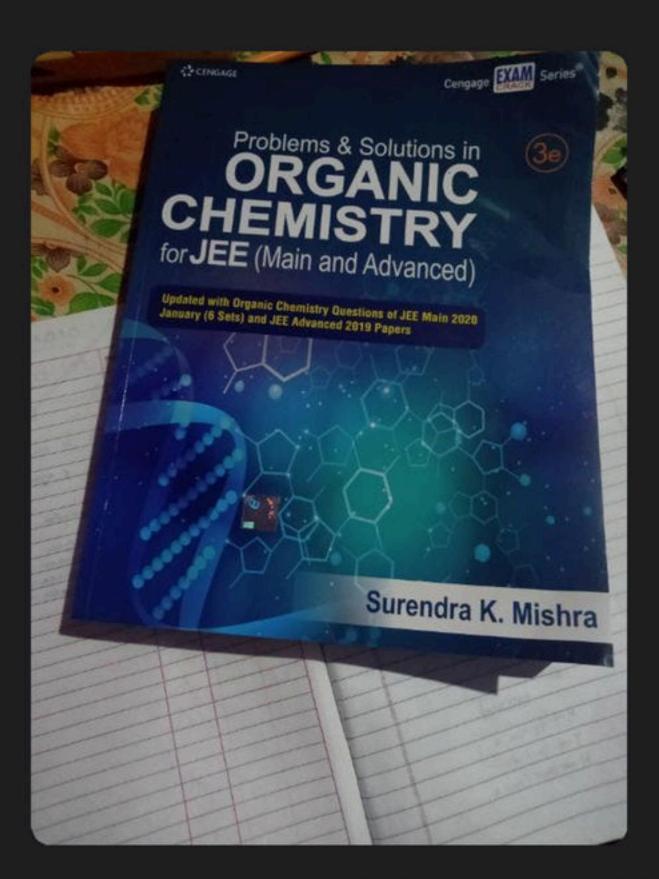


Induction

IUPA((MW) 2271 NA-Dimetryl Ethanin (211) Benzene 1, 2-diol (222) 1-McHyl-N-Metnyl Etnyl propon-1-anie (23) — 1,4 (223) Penteur - 2,3-diamive. methamine (216) (219) —— (224) 3,4,5,6 Tetra methyl (219) Propon -2-amile Detarn-2-amile Ethanamine (217) (218) ----(220) --- (725) 2-Ethylidine Propondiamine

226) Amino methanamide 227) (220) (225) (1,2) (3,4) d'eproxy Butane. (23°)





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