

## CH 4. RADICALS

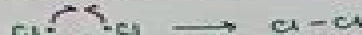
### 1. INITIATION - FORM RADICALS



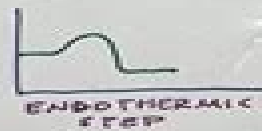
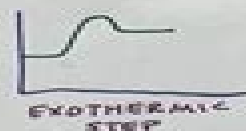
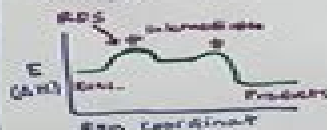
### 2. PROPAGATION - RADICAL REACTANT → RADICAL PRODUCT



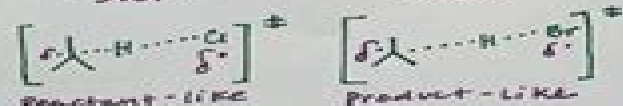
### 3. TERMINATION - 2 RADICALS → NO RADICALS



$$\Delta H_{\text{rxn}} = \sum (\text{bonds broken}) - \sum (\text{bonds formed}) - \text{form bond}$$



$\text{F}_2$  - most reactive  
 $\text{Cl}_2$  - reactive, not selective  
 $\text{Br}_2$  - selective, picky  
 $\text{I}_2$  - not reactive, endo.



RESONANCE + SUBST. ↑ RAD. STABILITY  
 $\text{Allyl} \cdot > \text{R}-\text{C}(\text{H})-\text{R} > \text{R}-\text{C}(\text{H})_2-\text{R} > \text{R}-\text{C}(\text{H})_3$   
 $3^\circ > 2^\circ > 1^\circ$

## CH 5. STEREOCHEMISTRY

### CHIRAL - Not symmetrical



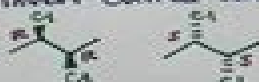
### CONST. ISOMER - connect. diff.



### ACHIRAL - SYMMETRY



### ENANTIOMER - Invert chiral centers



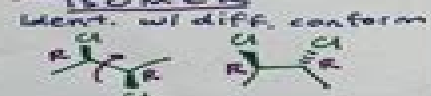
### DIASTEROMER - Invert some, not all, chiral centers



### MESO - ACHIRAL W/ CHIRAL CENTERS



### CONFORMATIONAL ISOMERS

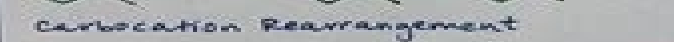


## CH 6. NUCLEOPHILIC SUBSTITUTION



Nuc. Lone pairs (s) charge  
 Electroph. (s) or  $\delta^+$  charge

### SN1 → Racemic



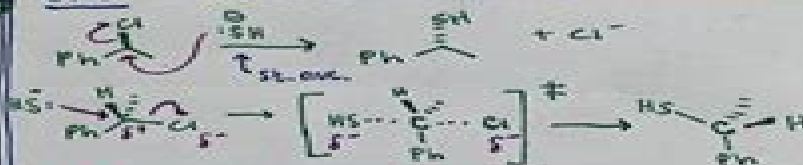
H or methyl shift, resonance

\* Weak Nucleophile, Rate =  $k[\text{subst.}]$

LEAVING GROUP:  $\text{I} > \text{Br} > \text{Cl} \gg \text{F or OH}$



### SN2 → Invert chiral center



\* Strong Nucleophile  
 $1^\circ$  or methyl

$$\text{rate} = k[\text{substrate}][\text{nucleophile}]$$

# Guide Quick Notes Reactions Iitjee Organic Chemistry

**S Marginson**



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