

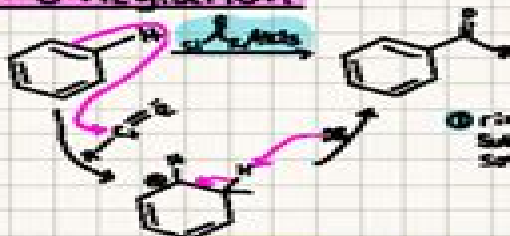
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Chap 16

F-C Alkylation

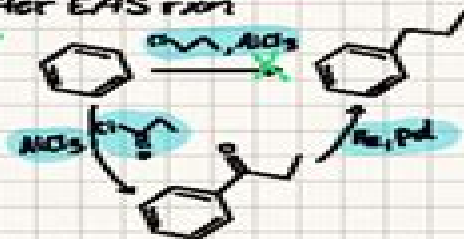
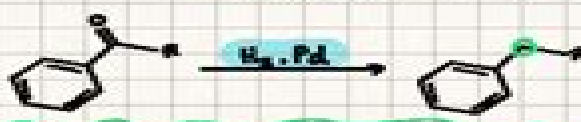


F-C Acylation



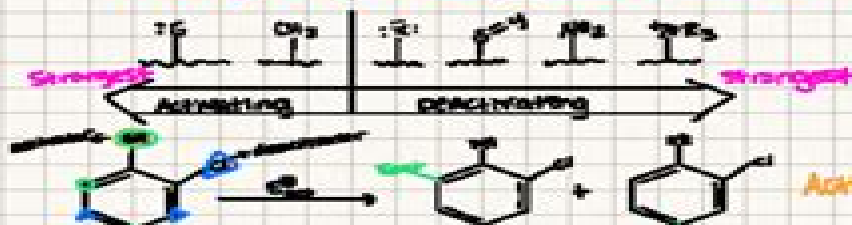
Getting Around the limitations

- Reduces C=O to CH₂ After EAS rxn



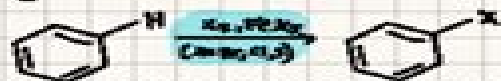
If directing groups are in different positions:

- Activator wins over deactivator
- Stronger of the 2 activators win
- Stronger of the 2 deactivators win



Activator wins

Halogenation:



Sulfonation:



Nitration



Substituent Effects in Electrophilic Substitution

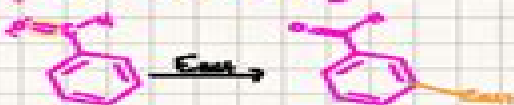
Example 1:

- Lone pairs on ring
- activating
- o + p directing



Example 2:

- Pi bond next to ring
- Deactivating
- Meta directing



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Hussin A.Rothana



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