Reaction Mechanism (CHEM-563)

Online Lecture-10 (Week-4)

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Addition Reactions



Soft vs Hard Electrophilic Centres



Factors Affecting 1,2/1,4-Addition

- •The reaction conditions (Kinetically / Thermodynamically controlled reactions)
- •Type of Nucleophile (Hard / soft)
- •Nature (Functional group) of carbonyl
- •Steric Factor
- •Nature of Organometallic

Reaction Conditions



Disubstituted C=C

Type of Nucleophiles







Nature of Organometallic





Suggested Reading

- i) Chapter 19 (Page 446 to 447)
- ii) Chapter 20 (Page 449 to 459)
 of "Organic Chemistry" by Clayden, J;
 Greeves, N; Warren, S., 2nd Edition, Oxford
 University Press, England (2008)