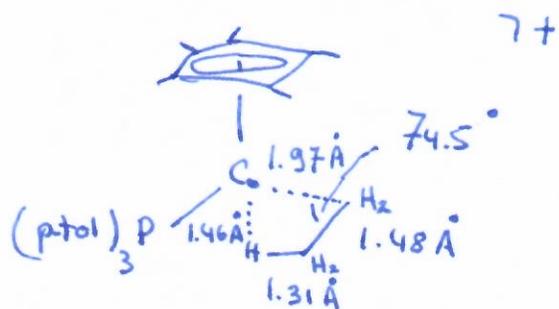
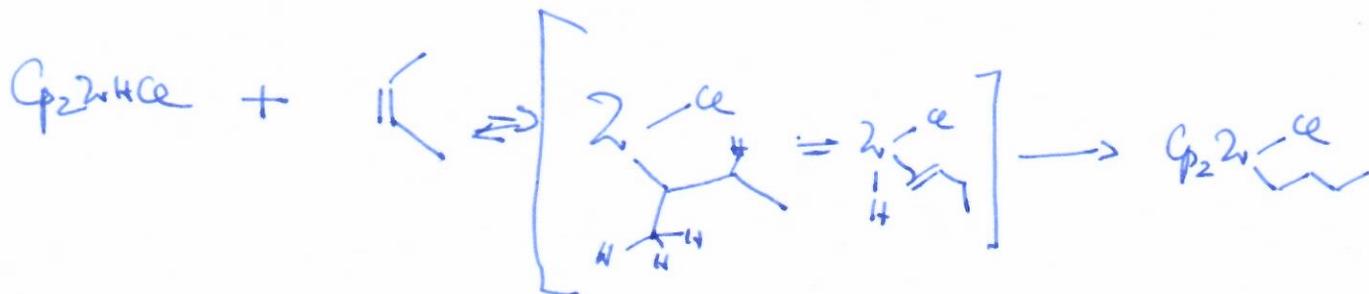
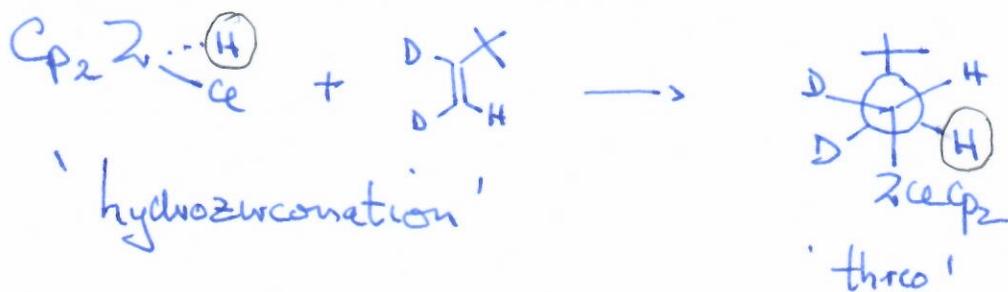


agostic alkyls as models for the transition state of olefin insertion



G. Orpen, Chem. Commun. 1984, 326

Syn-addition of M-H to alkene:



J. Dewar JACS 1985, 107, 2670



fast rxns: @ 50°C measure rate by 'spin saturation transfer'

$k_1 \sim 2.4 \text{ s}^{-1}$

$\Delta G^\ddagger \sim 18.5 \text{ kcal/mol}$

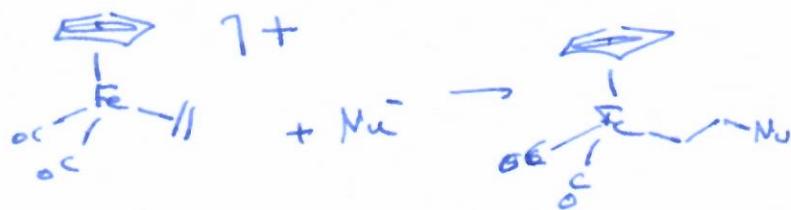
Ch 10.6

Attack on coordinated ligands

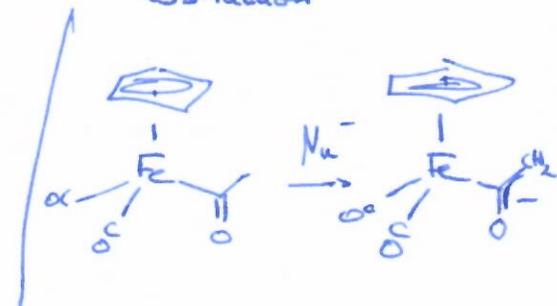
read: Ch. 8

1) nucleophilic attack

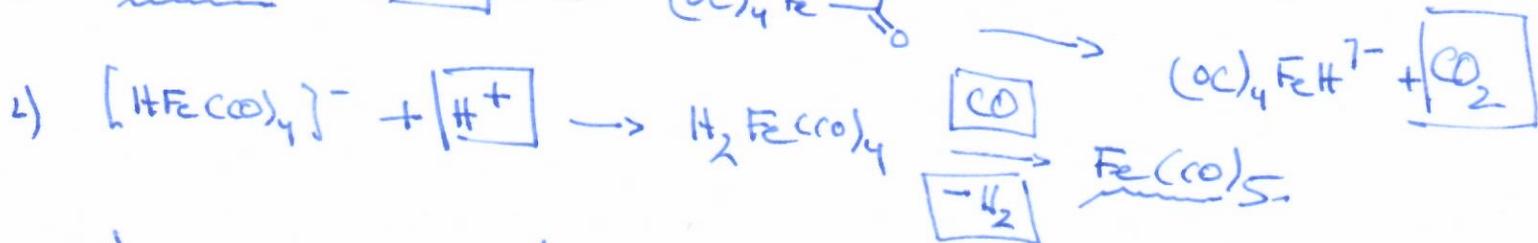
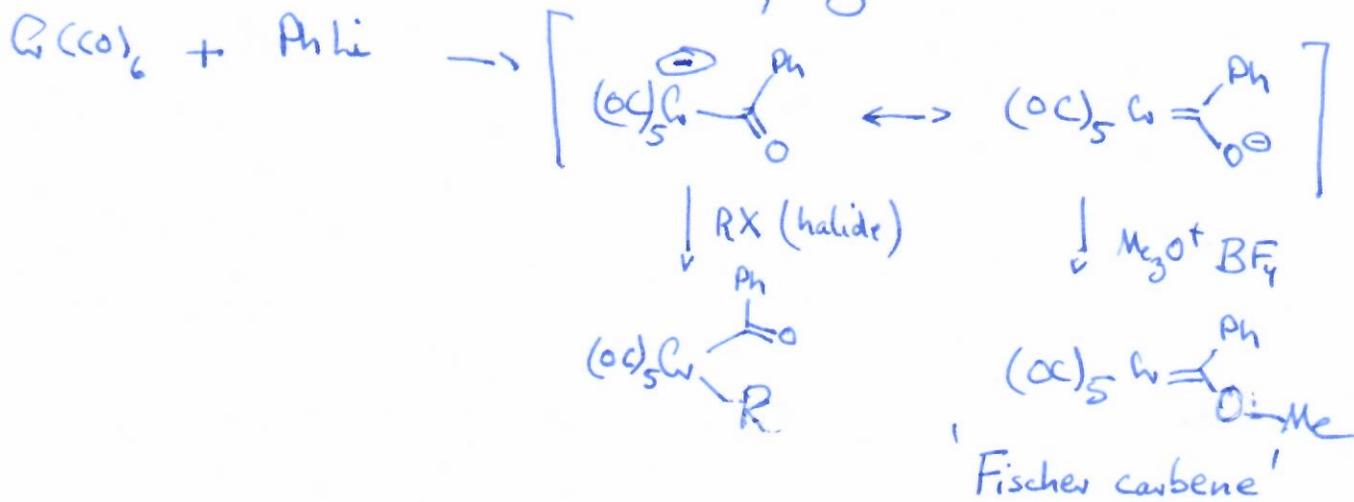
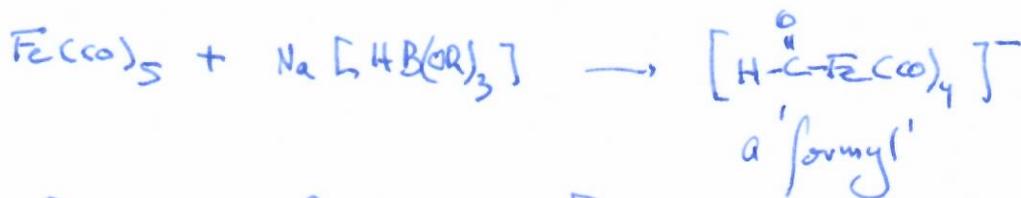
e.g. olefin addition



abstraction



metal carbonyls



'water gas shift' rxn: $\text{CO} + \text{H}_2\text{O} \rightleftharpoons \text{CO}_2 + \text{H}_2$

