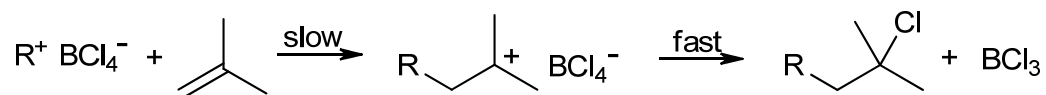


D. Kinetics of the Reactions of Carbocations with Alkenes

The rules developed in A were used to develop a kinetic method for determining the rates of attack of carbocations at CC-double bonds.



Though this type of reaction represents the key-step of many transformations in organic and macromolecular chemistry as well as in biochemistry, prior to our work, rate constants for such processes were essentially unknown. Three communications in *Angewandte Chemie* (# 47, 56, 57) and three back to back full papers in *J. Am. Chem. Soc.* (# 95, 96, 97) changed this situation abruptly. Nowadays, hundreds of rate constants, mostly by us, are available, and electrophilic alkylations of alkenes are now among the best understood CC-bond forming reactions (# 100).