E. Carbocationic Polymerizations

The methods developed in A and D were used in Macromolecular Chemistry for designing initiators, coinitiators, and comonomers in carbocationic polymerizations (# 137, 152, 157, 186, 206). As reviewed by Puskas (*J. Polymer Science: Part A: Polymer Chem.* **2005**, *43*, 5394) our work changed the previously accepted value for the propagation rate constant of cationic isobutylene polymerization by several orders of magnitude. The diffusion-clock method, a well-established tool in Physical Organic Chemistry, was introduced into Macromolecular Chemistry (# 140) and has been used for determining numerous propagation rate constants (Faust et al.).