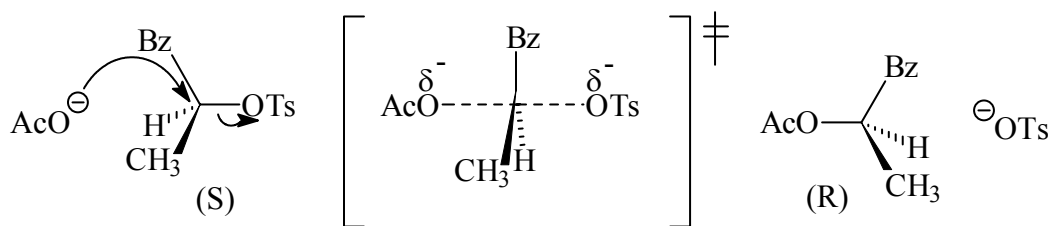
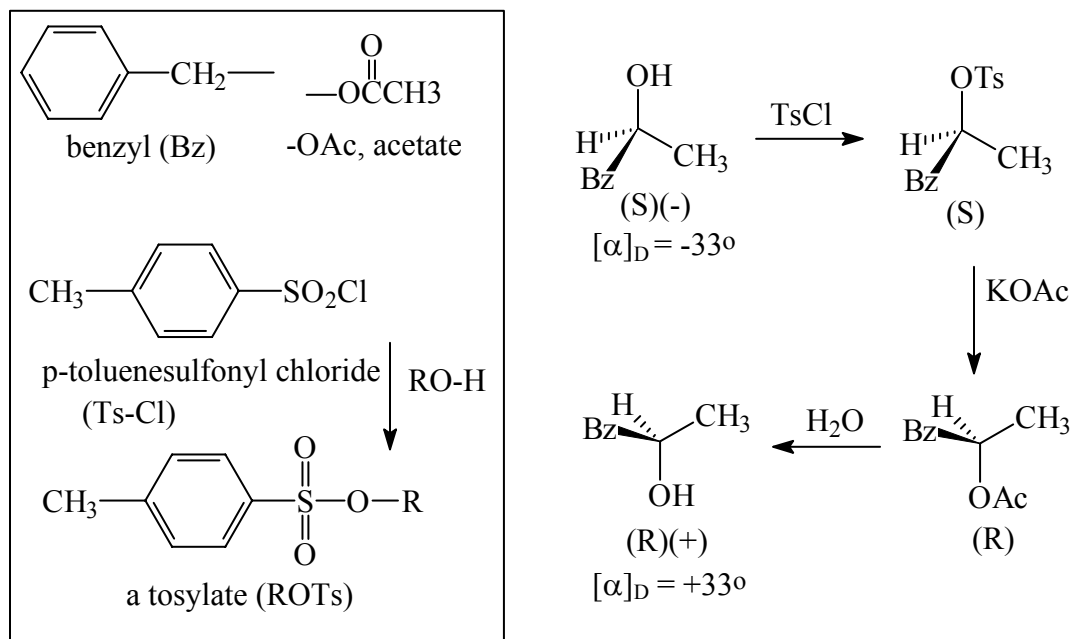


Proof of Inversion of Configuration at a Chiral Center (Phillips and Kenyon)



$$\text{Rate} = k [\text{AcO}^-][\text{R-OTs}]$$

Second order rate kinetics, hence **S_N2**

Since the energy of the transition state is significant in determining the rate of the reaction, a primary substrate will react more rapidly than secondary (than a tertiary)

