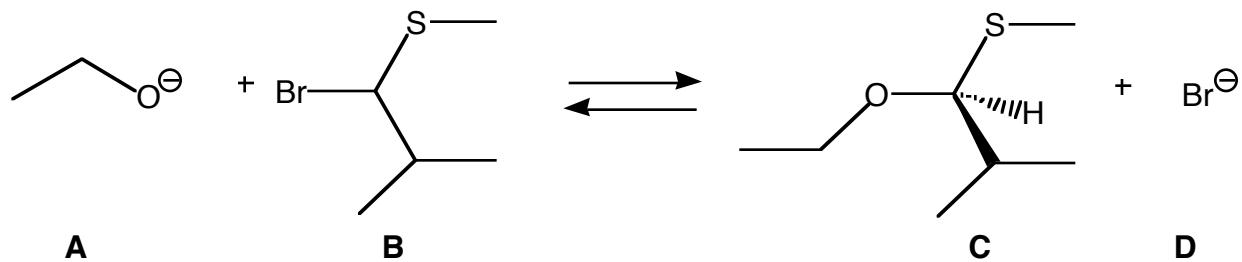


Problem 52, Chemistry 301X - 2006

For the reaction:



- i. What must be the stereochemistry of **B** if the reaction proceeds by an $\text{S}_{\text{N}}2$ reaction? Draw a 3D picture of **B**.
- ii. Draw an energy diagram for this reaction. Draw a 3-D picture of the transition state for the $\text{S}_{\text{N}}2$ reaction.
- iii. Is **C** *R* or *S*? Is **B** *R* or *S*? Is this odd? Explain.