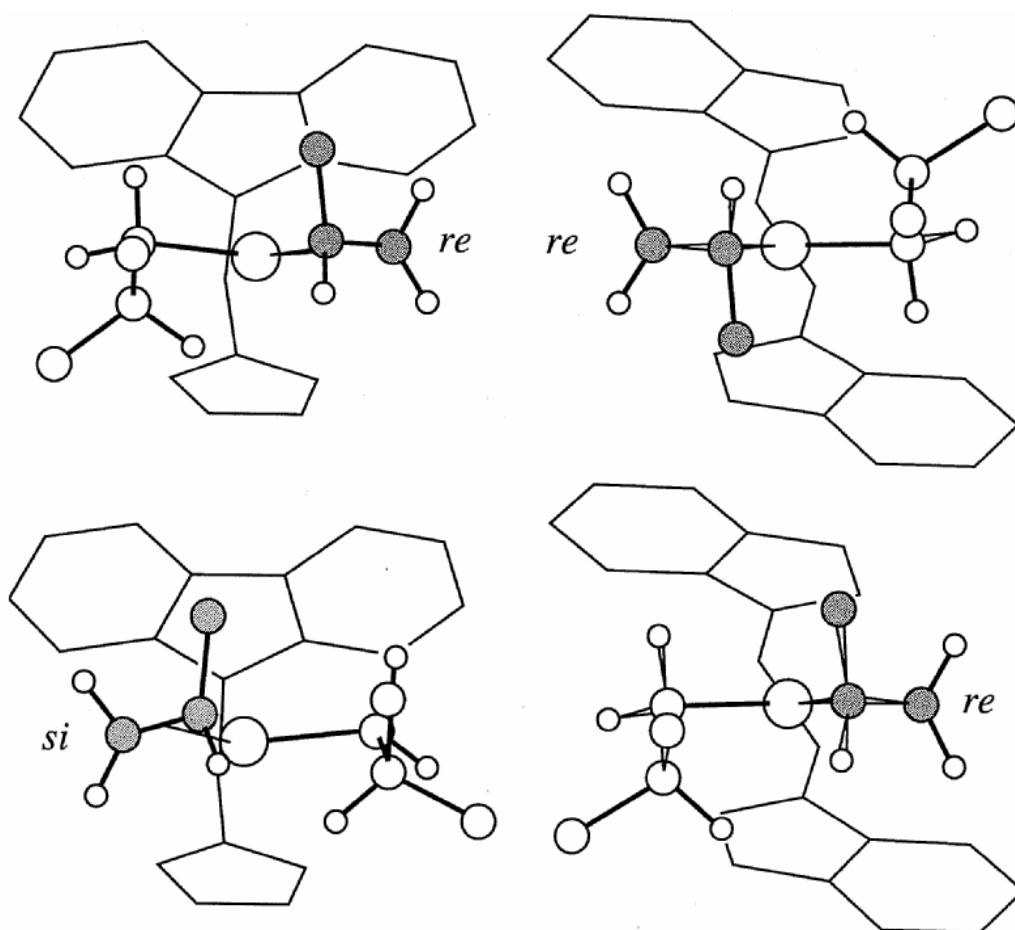
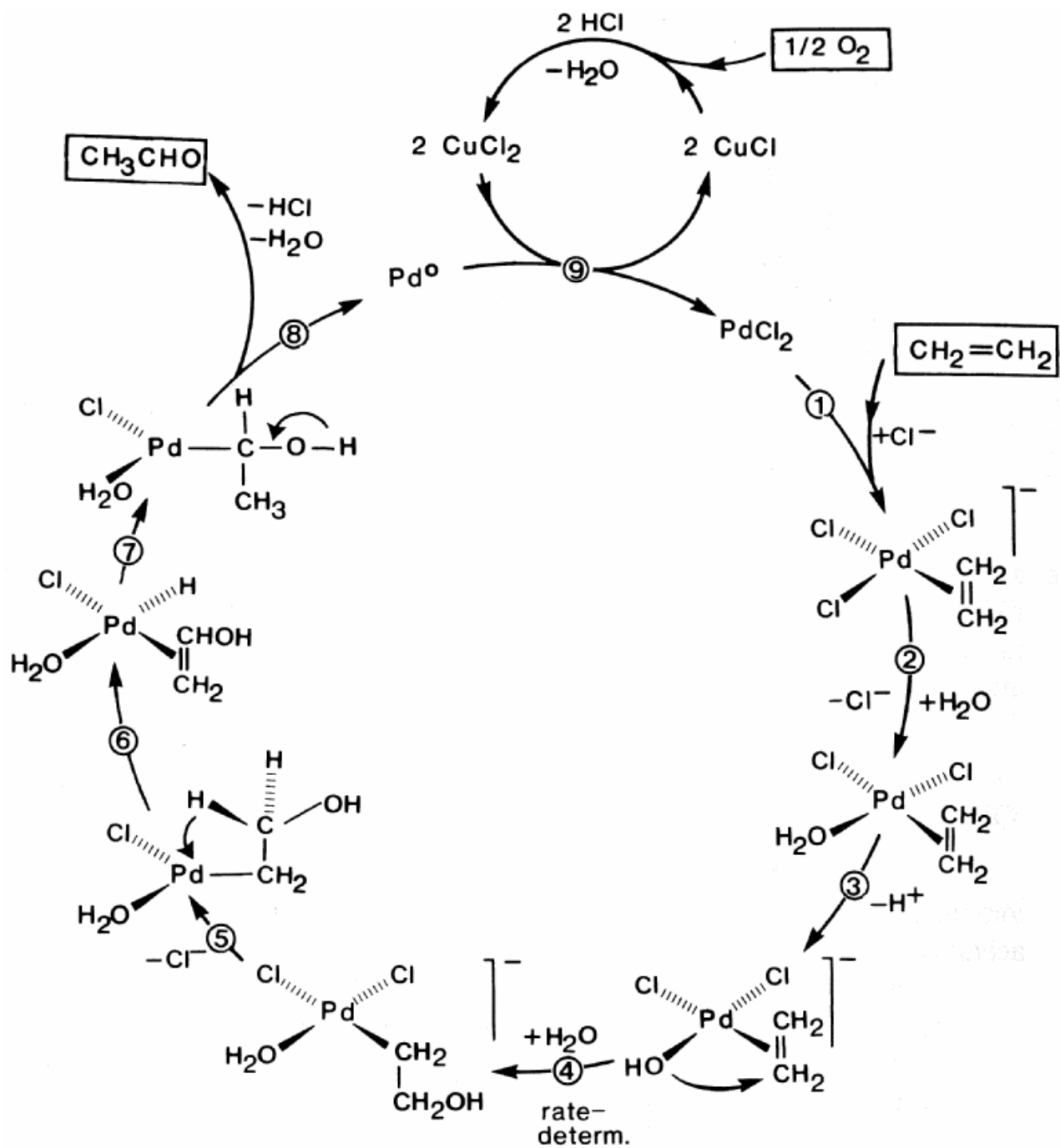


Zirconocene **catalyst precursors** for propylene polymerisation.



The **achiral metallocene catalyst** (left) leads to alternate propenes binding via the opposite faces, *re* then *si*, to give syndiotactic polymer. The **chiral metallocene catalyst** (right) leads to alternate propenes (shaded) binding via the same *re*-face to give isotactic polymer.



Olefin oxidation: the **Wacker process**.