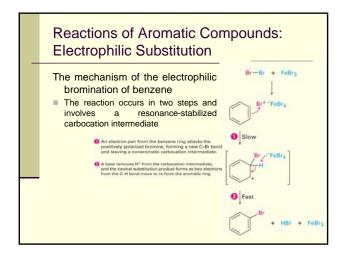
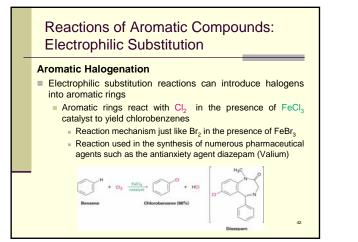
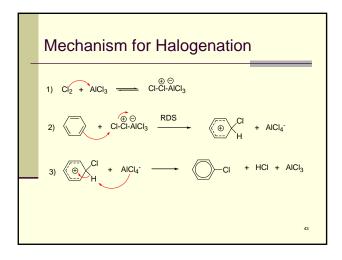
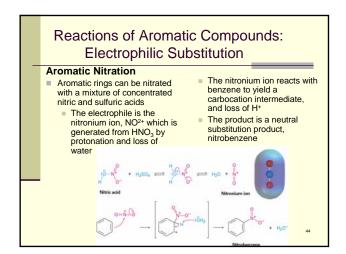


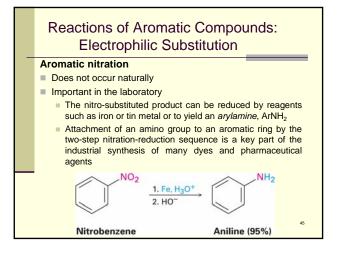
- When substitution occurs, the stability of the aromatic ring is retained and the reaction is exergonic
- Loss of H⁺ restores aromaticity to ring
- The net effect is the substitution of H⁺ by Br⁺

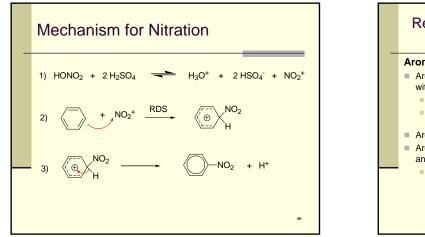


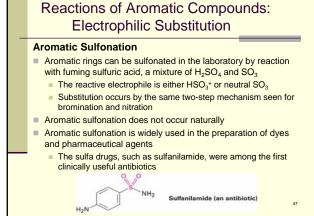


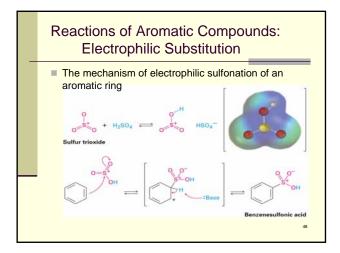


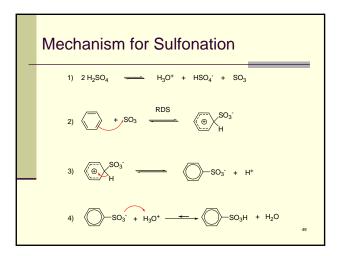


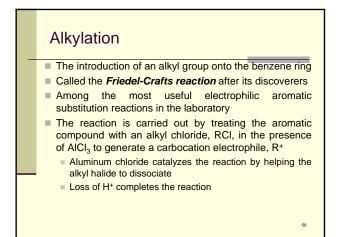


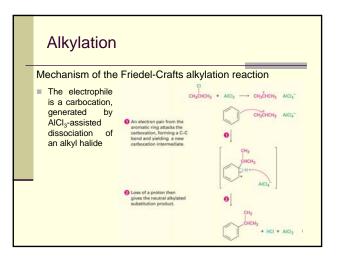


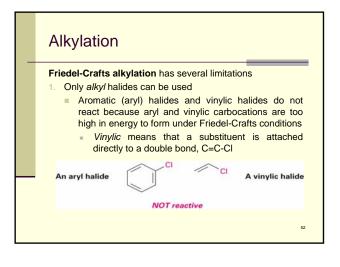


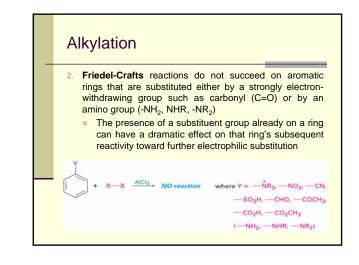


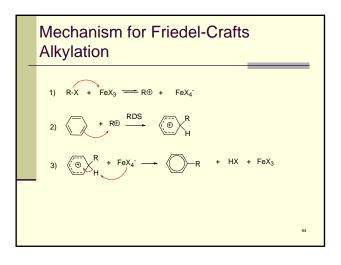


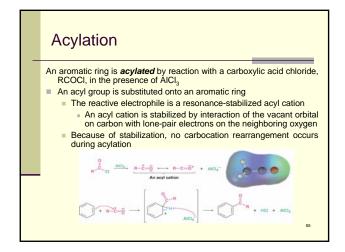


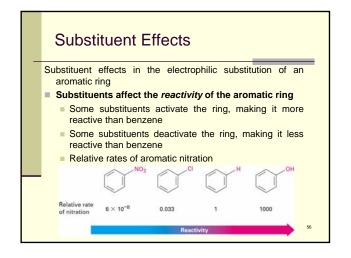


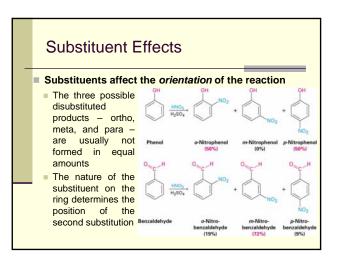


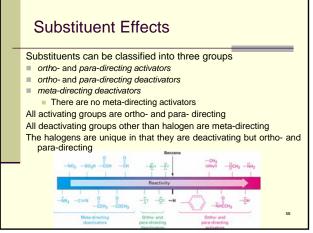


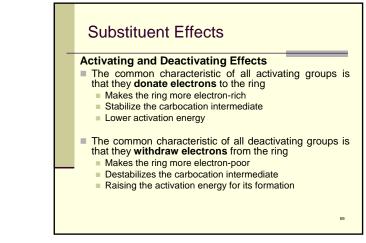


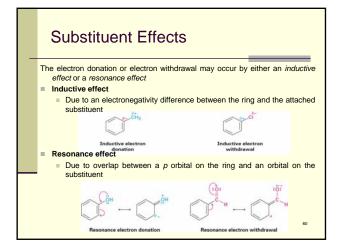


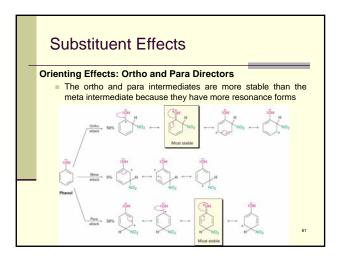


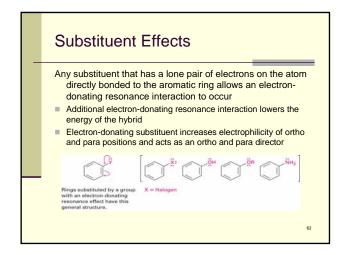


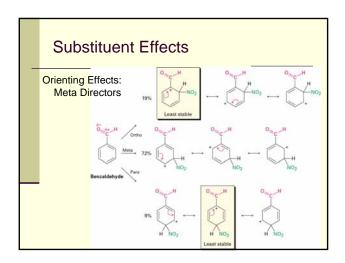


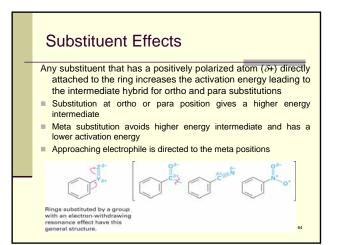












	A Summary of Substituent Effects in Electrophilic Substitutions					
Table 8.2 Substituent Effects in Electrophilic Aromatic Substitutions						
Substituen	t R	eactivity	Orienting effect	Inductive effect	Resonance effect	
-CH3	A	ctivating	Ortho, para	Weak donsting	4-9 	
-OH, -NH2	Α	ctivating	Ortho, para	Weak withdrawing	Strong donating	
-F, -C1 -Br, -I	} D	eactivating	Ortho, para	Strong withdrawing	Weak donating	
-NO2, -CN, -CHO, -CO -COR, -CO	2R D	eactivating	Meta	Strong withdrawing	Strong withdraw	