Aromatic Compounds

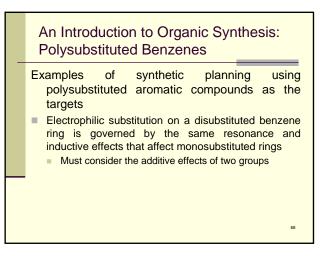
An Introduction to Organic Synthesis: Polysubstituted Benzenes There are many reasons for carrying out laboratory synthesis of an organic molecule In the pharmaceutical industry, new molecules are designed and synthesized in the hope that some might be useful drugs In the chemistry industry, syntheses are done to devise more economical routes to known compounds

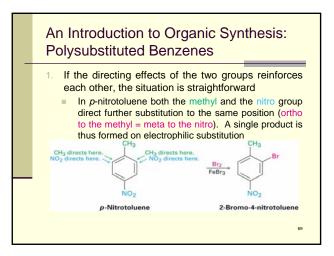
In biochemistry laboratories molecules synthesized to probe enzyme mechanisms

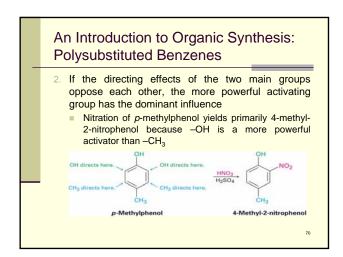
66

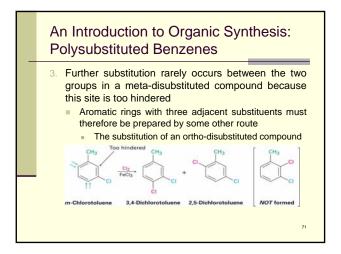
An Introduction to Organic Synthesis: Polysubstituted Benzenes

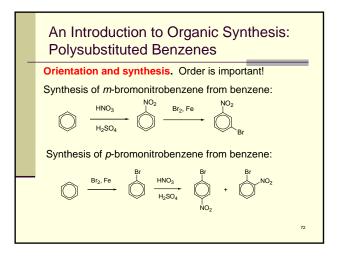
- Planning a successful multistep synthesis of a complex molecule requires knowledge of the uses and limitations of numerous organic reactions
- The trick to planning an organic synthesis is to *work backward*, often referred to as the *retrosynthetic* direction
- Keep starting material in mind and work backward to it
- Look at the final product and determine possible immediate precursors of that product
- Work backward one step at a time

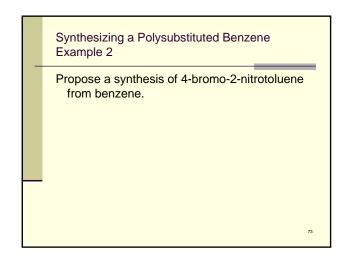


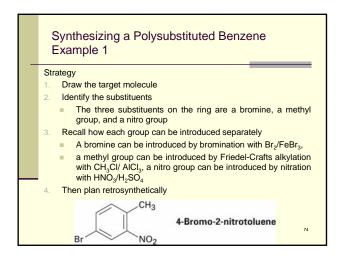


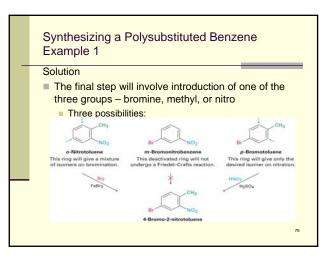


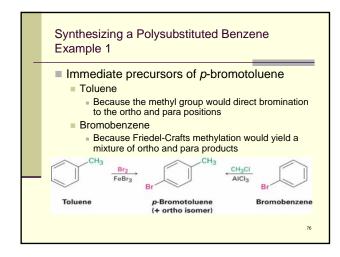


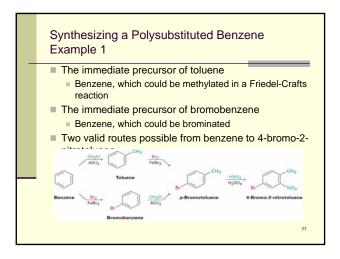












Aromatic Compounds

