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Chapter 4 Electrophilic Acylation of Arenes 4.1 General Aspects; 4.2 Problematic Arenes; 4.2.1 Dealkylation/Isomerization of Arenes; 4.2.2 Styrenes; 4.2.3 Anilines, Phenols, and Thiophenols; 4.2.4 Electron-Deficient Arenes; 4.2.5 Azoles; 4.3 Problematic Electrophiles; 4.3.1 Problematic Acyl Halides; 4.3.2 Carboxylic Esters and Lactones; 4.3.3 Carbonic Acid Derivatives; 4.3.4 Formic Acid Derivatives; 4.3.5 Mixed Carboxylic Anhydrides and Other Polyelectrophiles; References; Chapter 5 Electrophilic Halogenation of Arenes; 5.1 General Aspects; 5.2 Typical Side Reactions; 5.3 Regioselectivity; 5.4 Catalysis; 5.5 Fluorinations; 5.6 Electron-Deficient Arenes; 5.6.1 Pyridines; 5.6.2 Benzoic Acid Derivatives; 5.7 Electron-Rich Arenes; 5.7.1 Phenols and Arylethers; 5.7.2 Anilines; 5.7.3 Azoles; 5.8 Sensitive Functional Groups; 5.8.1 Alkenes; 5.8.2 Amines; 5.8.3 Ethers; 5.8.4 Thiols and Thioethers; 5.8.5 Aldehydes, Ketones, and Other C-H Acidic Compounds; 5.8.6 Amides; References; Chapter 6 Electrophilic Formation of Aromatic C-N Bonds; 6.1 Nitration of Arenes; 6.1.1 Mechanisms; 6.1.2 Regioselectivity; 6.1.3 Catalysis; 6.1.4 Electron-Deficient Arenes; 6.1.5 Electron-Rich Arenes; 6.1.5.1 Anilines; 6.1.5.2 Indoles; 6.1.5.3 Phenols; 6.2 Electrophilic Aromatic Aminations; 6.2.1 Typical Side Reactions; 6.3 Electrophilic Aromatic Amidations; 6.3.1 Typical Side Reactions; References; Chapter 7 Electrophilic Formation of Aromatic C-S Bonds; 7.1 Sulfonylation; 7.1.1 General Aspects; 7.1.2 Typical Side Reactions; 7.2 Sulfinylation; 7.2.1 General Aspects; 7.2.2 Typical Side Reactions; 7.3 Sulfenylation; 7.3.1 General Aspects; 7.3.2 Typical Side Reactions; References; Chapter 8 Aromatic Nucleophilic Substitutions; 8.1 General Aspects; 8.1.1 Mechanisms; 8.1.2 Regioselectivity; 8.1.3 Acid-/Base-Catalysis

Sommario/riassunto

Following in the footsteps of the successful "Side Reactions in Organic Synthesis" by the same, highly experienced author, this new textbook focuses on aromatic substitution reactions, both electrophilic and nucleophilic. The coverage is reader-friendly with each chapter dealing with a certain reaction class in terms of its scope and limitations in detail, and unique in its approach since unexpected and unwanted side reactions are hard to find in the literature. A valuable addition to the classical textbooks on organic chemistry, this is a must-have for graduate students as well as for

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