

Modern Nucleophilic Aromatic Substitution

By Francois Terrier

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This book provides a comprehensive overview of nucleophilic aromatic substitutions, focusing on the mechanistic and synthetic features that govern these reactions.

The first chapter presents a detailed mechanistic analysis of the factors determining the feasibility of SNAr substitutions, providing decisive information to predict regioselectivity of many reactions and to define the conditions for concerted SNAr processes. Reflecting the key role played by these species as intermediates in most SNAr reactions, chapter 2 then discusses the chemistry of anionic sigma-complexes. Chapter 3 describes the concept of superelectrophilicity in SNAr substitutions, as it has recently emerged from the reactivity of strongly electron-deficient aromatic and heteroaromatic structures. The numerous synthetic applications are considered in depth in the chapters 4 and 5 that follow on intermolecular and intramolecular nucleophilic aromatic substitutions. Then, chapter 6 focuses on substitutions proceeding formally through displacement of a hydride ion, a hot topic in the field. The final chapter brings together concise yet comprehensive discussions surrounding SNAr photosubstitutions, radical substitutions, and ANRORC substitutions.

Authored by a highly respected chemist who has contributed greatly to the field over the past two decades, this is a valuable information source for all organic chemists working in academia or the pharmaceutical and agrochemical industries.

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Editorial Review

From the Back Cover

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About the Author
Francois Terrier obtained his PhD in 1968 from the University Pierre et Marie Curie in Paris. After postdoctoral research with Professor Bernasconi at the University of California, Santa Cruz, he was appointed Professor at the University of Rouen. In 1991 he moved to the new University of Versailles, where he holds a Professorship of organic chemistry. As the Head of the Department of Chemistry he developed a research lab focusing on various topics dealing with reactivity and physical organic chemistry, namely nucleophilic aromatic substitutions and sigma-complexation processes, alfa-effect nucleophiles and proton transfers at carbon. He has published over 200 papers, as well as a number of book chapters and review articles.

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