



# Modern Nucleophilic Aromatic Substitution

*Francois Terrier*

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## **Modern Nucleophilic Aromatic Substitution** Francois Terrier

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 S<sub>N</sub>Ar substitutions, providing decisive information to predict regioselectivity of many reactions and to define the conditions for concerted S<sub>N</sub>Ar processes. Reflecting the key role played by these species as intermediates in most S<sub>N</sub>Ar reactions, chapter 2 then discusses the chemistry of anionic sigma-complexes. Chapter 3 describes the concept of superelectrophilicity in S<sub>N</sub>Ar 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 S<sub>N</sub>Ar 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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