Book Received*


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The control of reactivity to achieve specific syntheses is one of the overarching goals of organic chemistry. In the decade since the publication of the third edition, major advances have been made in the development of efficient new methods, particularly catalytic processes, and in means for control of reaction stereochemistry. This volume assumes a level of familiarity with structural and mechanistic concepts comparable to that in the companion volume, Part A, Structures and Mechanisms. Together, the two volumes are intended to provide the advanced undergraduate or beginning graduate student in chemistry with a sufficient foundation to comprehend and use the research literature in organic chemistry.

Contents:
1. Alkylation of Nucleophilic Carbon.
2. Reactions of Carbon Nucleophiles with Carbonyl Groups.
3. Functional Group Interconversion by Nucleophilic Substitution.
4. Electrophilic Additions to Carbon-Carbon Multiple Bonds.
5. Reduction of Carbonyl and Other Functional Groups.
8. Reactions Involving the Transition Metals.
10. Reactions Involving Carbocations, Carbenes and Radicals as Reactive Intermediates.
11. Aromatic Substitution Reactions.
12. Oxidations.
13. Planning and Execution of Multi-Step Syntheses.

*Editor's Note: The brief summary and the contents of the books are reported as provided by the author or the publishers. Authors and publishers are encouraged to send review copies of their recent books of potential interest to readers of Molecules to the Editor-in-Chief (Dr. Shu-Kun Lin, MDPI, Saengergasse 25, CH-4054 Basel, Switzerland. Tel. +41 79 322 3379, Fax +41 61 302 8918, E-mail: molinfo@mdpi.org). Some books
will be offered to the scholarly community for the purpose of preparing full-length reviews.