

Comprehensive Organic Functional Group Transformations

COMPREHENSIVE ORGANIC FUNCTIONAL GROUP TRANSFORMATIONS

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Volume 3
*Synthesis: Carbon with One Heteroatom
Attached by a Multiple Bond*

PERGAMON

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"Comprehensive Organic Functional Group Transformations (COFGT)" covers in seven volumes the vast subject of organic synthesis in terms of the introduction and interconversion of functional groups. All organic structures can be considered as skeletal frameworks of carbon atoms to which functional groups are attached or in which they are embedded. These functional groups are largely responsible for chemical and biological activity and it is these functional groups which are highlighted in "COFGT". This new comprehensive work will complement the existing "Comprehensive Organic Synthesis (COS)". Thus while "COS" is organized by reaction type, we have adopted in "COFGT" a rather rigorous, logical and formal treatment on the basis of structure, which enables a detailed analysis of all known (and indeed of some as yet unknown) functional groups and which deals rationally and comprehensively with the methods for their construction. Thus volume 1 deals with syntheses involving alteration in the bonding of carbon atoms which possess no attached heteroatoms. Volumes 2 and 3 deal with carbons with one attached heteroatom. Volumes 4 and 5 with carbons with two attached heteroatoms and volume 6 with carbons with three and four attached heteroatoms. Volume 7 is the index volume. A major advantage of the present work lies in the accessibility of the information. "COFGT" should provide the first point of entry to the literature for synthetic organic chemists together with an unrivalled source for anyone interested in less common or obscure or unknown functional groups. All seven volumes will be published simultaneously to provide a "state-of-the-art" coverage to "COFGT" in terms of authoritative authorship and a high level of presentation. It should appeal to all academic and industrial researchers involved with organic chemistry together with teachers at all levels.

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