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The purpose of this edition, like that of the earlier ones, is to provide the basis for a deeper understanding of the structures of organic compounds and the mechanisms of organic reactions. The level is aimed at advanced undergraduates and beginning graduate students. Our goals are to solidify the student's understanding of basic concepts provided by an introduction to organic chemistry and to present more information and detail, including quantitative information, than can be presented in the first course in organic chemistry. The first three chapters consider the fundamental topics of bonding theory, stereochemistry, and conformation. Chapter 4 discusses the techniques that are used to study and characterize reaction mechanisms. Chapter 9 focuses on aromaticity and the structural basis of aromatic stabilization. The remaining chapters consider basic reaction types, including substituent effects and stereochemistry. As compared to the earlier editions, there has been a modest degree of reorganization. The emergence of free-radical reactions in synthesis has led to the inclusion of certain aspects of free-radical chemistry in Part B. The revised chapter, Chapter 12, emphasizes the distinctive mechanistic and kinetic aspects of free-radical reactions. The synthetic applications will be considered in Part B. We have also split the topics of aromaticity and the reactions of aromatic compounds into two separate chapters, Chapters 9 and 10. This may facilitate use of Chapter 9, which deals with the nature of aromaticity, at an earlier stage if an instructor so desires.

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Arsenic, antimony and bismuth, three related elements of group 15, are all found in trace quantities in nature and have interesting biological properties and uses. While arsenic is most well known as a poison - and indeed the contamination of groundwater by arsenic is becoming a major health problem in Asia - it also has uses for the treatment of blood cancer and has long been used in traditional Chinese medicine. Antimony and bismuth compounds are used in the clinic for the treatment of parasitic and bacterial infections. Biological Chemistry of Arsenic, Antimony and Bismuth is an essential overview of the biological chemistry of these three elements, with contributions from an international panel of experts. Topics covered include: chemistry of As, Sb and Bi biological chemistry of arsenic biological chemistry of Sb and Bi arsenic and antimony speciation in environmental and biological samples arsenic in traditional Chinese medicine arsenic in aquifers biomethylation of As, Sb and Bi uptake of metalloids by cells bismuth complexes of porphyrins and their potential in medical applications Helicobacter pylori and bismuth metabolism of arsenic trioxide in blood of the acute promyelocytic leukemia patients anticancer properties of As, Sb and Bi radio-Bi in cancer therapy genotoxicity of As, Sb and Bi metallomics as a new technique for As, Sb and Bi metalloproteomics for As, Sb and Bi Biological Chemistry of Arsenic, Antimony and Bismuth conveys the essential aspects of the bioinorganic chemistry of these three elements, making this book a valuable complement to more general bioinorganic chemistry texts and more specialized topical reviews. It will find a place on the bookshelves of practitioners, researchers and students working in bioinorganic chemistry and medicinal chemistry.

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From ancient Greek theory to the explosive discoveries of the 20th century, this authoritative history shows how major chemists, their discoveries, and political, economic, and social developments transformed chemistry into a modern science. 209 illustrations. 14 tables. Bibliographies. Indices. Appendices.

The design of ancillary ligands used to modify the structural and reactivity properties of metal complexes has evolved into a rapidly expanding sub-discipline in inorganic and organometallic chemistry. Ancillary ligand design has figured directly in the discovery of new bonding motifs and stoichiometric reactivity, as well as in the development of new catalytic protocols that have had widespread positive impact on chemical synthesis on benchtop and industrial scales. Ligand Design in Metal Chemistry presents a collection of cutting-edge contributions from leaders in the field of ligand design, encompassing a broad spectrum of ancillary ligand classes and reactivity applications. Topics covered include: Key concepts in ligand design Redox non-innocent ligands Ligands for selective alkene metathesis Ligands in cross-coupling Ligand design in polymerization Ligand design in modern lanthanide chemistry Cooperative metal-ligand reactivity P,N Ligands for enantioselective hydrogenation Spiro-cyclic ligands in asymmetric catalysis This book will be a valuable reference for academic researchers and industry practitioners working in the field of ligand design, as well as those who work in the many areas in which the impact of ancillary ligand design has proven significant, for example synthetic organic chemistry, catalysis, medicinal chemistry, polymer science and materials chemistry.

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