

A Practical Guide to 750 Transformations

Introduction to Strategies for Organic Synthesis

Asymmetric Organic Synthesis with Enzymes

Part A: Structure and Mechanisms

The editors, Lund (emeritus, organic chemistry, Aarhus U., Denmark) and Hammerich (chemistry, U. of Copenhagen), have substantially revised and expanded this basic reference work (originally edited by Bazier). There are two new chapters--on the electrochemistry of C60 compounds and electroenzymatic synthesis--and one-third of the chapters have been rewritten by new authors, these are: carbonyl compounds; anodic oxidation of oxygen-containing compounds; anodic oxidation of sulfur- and selenium-containing compounds; electrosynthesis of bioactive materials (this replaces natural products and pharmaceuticals); organoelemental compounds; reductive coupling; electrochemical partial fluorination; electrogenerated bases; industrial electroorganic chemistry; and conducting polymers. The international group of contributors are all academics in various disciplines in chemistry. Annotation copyrighted by Book News, Inc., Portland, OR

Parise and Loudon's Study Guide and Solutions Manual offers the following learning aids: * Links that provide hints for study, approaches to problem solving, and additional explanations of challenging topics; * Further Explorations that provide additional depth on key topics; * Reaction summaries that delve into key mechanisms and stereochemistry; * Solutions to all the textbook problems. Rather than providing just the answer, many of the solutions provide detailed explanations of how the problem should be approached.

Perfect for biochemists, synthetic and organic chemists, this book covers all important reactions, including C-C coupling reactions, oxidation reactions and many more. Divided into two parts, the first section on methodology presents new innovative methods for enzymatic catalysis optimization, including such new trends as medium engineering, directed evolution and computer-aided prediction of enantioselectivity. The second and main section deals with applications to synthesis, showing important reaction types and their applications. Only those reactions with very high selectivity are presented, allowing readers to improve their own reaction yields.

The know-how about reactivity, reaction mechanisms, thermodynamics and other basics in physical organic chemistry is the key for successful organic reactions. This textbook presents comprehensively this knowledge to the student and to the researcher, too. Includes Q&As.

Study Guide to Organic Chemistry, Fourth Edition

A Laboratory Manual

Lithium Compounds in Organic Synthesis