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Total synthesis may be accomplished either via a linear or convergent approach. In a linear synthesis—often adequate for simple structures—several steps are performed one after another until the molecule is complete; the chemical compounds made in each step are called synthetic intermediates.

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Advanced Organic Synthesis: Methods and Techniques presents a survey and systematic introduction to the modern techniques of organic synthesis. The book attempts to acquaint the reader with a variety of laboratory techniques as well as introduce chemical reagents that require deftness and care in handling. Chapters are devoted that discuss the techniques of organic synthesis; apparatus and terminology used in the description of synthetic procedures; the scope and mechanism of chemical reactions; and technical procedures on how to perform chemical experiments. The text will be of vital importance to advanced undergraduate student or beginning graduate student of

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chemistry.

This is the accompanying workbook to the textbook "Organic Chemistry - Theory, Reactivity and Mechanisms in Modern Synthesis" by P. Vogel and K. Houk.

The third edition of this well-known textbook discusses some modern methods used in organic synthesis, and aims to show the value and scope of these methods and how they are used in the synthesis of complex molecules. The general plan of the book follows that of the second edition, but the opportunity has been taken to bring the book up to date and to take account of advances in knowledge and of new reactions which have come into use since publication of the earlier editions.

Particular emphasis is placed on highly stereoselective organic chemistry, including stereoselective alkylations, aldol reactions, oxidations, epoxidations and reductions. New methods for the stereoselective formation of carbon-carbon double bonds, and modern application reactions are also fully considered. The book will be of use to students of chemistry and biochemistry at graduate and senior undergraduate level. It will also interest practising scientists in industry and research establishments who wish to familiarise themselves with modern synthetic methods.

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presents in one volume a sequence of chapters leading from classical methods through to today's newest state-of-the-art technology for oligosaccharide synthesis. It places particular emphasis on the most recent breakthroughs in the field, including emerging technologies for both oligosaccharide and glycoconjugate synthesis. Chapters describing the synthesis of increasingly important glycosidic linkage analogs, as well as the oligosaccharides containing derivatives and analogs of natural sugars are included. While chemical-synthetic methods constitute the major part of the book, completing the volume is a section on the rapidly expanding and important field of enzymatic synthesis, also covering combined chemical and enzymatic synthesis. Chapters are written by leading experts in the field. Wherever possible, methods of synthesis are provided in sufficient detail to allow the reader to implement the techniques described. More than 1700 references are provided in the 21 chapters comprising the book. This volume should provide a wealth of information to a large number of synthetic organic chemists, medicinal chemists, protein chemists, biochemists, glycobiologists and cell biologists, including students in these fields.

An updated overview of the rapidly developing field of green engineering techniques for organic synthesis and medicinal chemistry

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Green chemistry remains a high priority in modern organic synthesis and pharmaceutical R&D, with important environmental and economic implications. This book presents comprehensive coverage of green chemistry techniques for organic and medicinal chemistry applications, summarizing the available new technologies, analyzing each technique's features and green chemistry characteristics, and providing examples to demonstrate applications for green organic synthesis and medicinal chemistry. The extensively revised edition of Green Techniques for Organic Synthesis and Medicinal Chemistry includes 7 entirely new chapters on topics including green chemistry and innovation, green chemistry metrics, green chemistry and biological drugs, and the business case for green chemistry in the generic pharmaceutical industry. It is divided into 4 parts. The first part introduces readers to the concepts of green chemistry and green engineering, global environmental regulations, green analytical chemistry, green solvents, and green chemistry metrics. The other three sections cover green catalysis, green synthetic techniques, and green techniques and strategies in the pharmaceutical industry. Includes more than 30% new and updated material—plus seven brand new chapters Edited by highly regarded experts in the field (Berkeley Cue is one of the fathers of Green Chemistry in Pharma) with backgrounds in

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