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Mimicking natural biochemical processes, click chemistry is a modular approach to organic synthesis, joining together small chemical units quickly, efficiently and predictably. In contrast to complex traditional synthesis, click reactions offer high selectivity and yields, near-perfect reliability and exceptional tolerance towards a wide range of functional groups and reaction conditions. These ‘ spring loaded ’ reactions are achieved by using a high thermodynamic driving force, and are attracting tremendous attention throughout the chemical community. Originally introduced with the focus on drug discovery, the concept has been successfully applied to materials science, polymer chemistry and biotechnology. The first book to consider this topic, Click Chemistry for Biotechnology and Materials Science examines the fundamentals of click chemistry, its application to the precise design and synthesis of macromolecules, and its numerous applications in materials science and biotechnology. The book surveys the current research, discusses emerging trends and future applications, and provides an important nucleation point for research. Edited by one of the top 100 young innovators with the greatest potential to have an impact on technology in the 21st century according to Technology Review and with contributions from pioneers in the field, Click Chemistry for Biotechnology and Materials Science provides an ideal reference for anyone wanting to learn more about click reactions.

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This unique book covers the latest developments in coupling and decoupling of biomolecules containing functionalized carbohydrate components, being one of the first collections in this important area of applied medicinal chemistry. Connecting molecules, often referred as bio-conjugation, has become one of the most often performed procedures in modern medicinal chemistry. Sometimes, when the connected molecules are not useful anymore, they must be disconnected. The molecules that must be connected (coupled) may belong to both small and large molecules and include such constructs as glycoproteins, glycopeptides and glycans. In this work, more than 15 experts address a comprehensive range of potential and current uses of in vitro and in vivo bio-conjugation methodologies, leading to a variety of glycoconjugates. The analytical aspects of bio-conjugation are also here discussed. Medicinal and organic chemists from graduate level onwards will understand the appeal of this important book.

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This book is the first volume of two volumes on cyclodextrins published in the series Environmental Chemistry for a Sustainable World. After a brief description of the cyclodextrin fundamentals, the first chapter by Gr é gorio Crini et al. provides an overview of cyclodextrin research during the last 5 years. The second chapter by Michal Řezanka discusses the synthesis of novel cyclodextrin systems by selective modifications. Then Eric Monflier et al. describes the synthesis of nanostructured porous materials based on cyclodextrins, and applications in heterogeneous catalysis and photocatalysis. The use of

thermal analyses for assessing cyclodextrin inclusion complexes is reviewed in chapter 4 by Daniel H ă d ă rug ă et al. Experimental methods for measuring binding constants of cyclodextrin inclusion compounds are presented by David Landy. The second volume reviews cyclodextrin applications in medicine, food, environment and liquid crystals.

Provides vital information on organometallic compounds, their preparation, and use in synthesis, and explores the fundamentals of the field and its modern applications Fully updated and expanded to reflect recent advances, the new, seventh edition of this bestselling text presents students and professional chemists with a comprehensive introduction to the principles and general properties of organometallic compounds, as well as including practical information on reaction mechanisms and detailed descriptions of contemporary applications. Increased focus is given to organic synthesis applications, nanoparticle science, and green chemistry. This edition features up-to-date examples of fundamental reaction steps and greater emphasis on key topics like oxidation catalysis, CH functionalization, nanoclusters and nanoparticles, and green chemistry. New coverage is added for computational chemistry, energy production, and biochemical aspects of organometallic chemistry. The Organometallic Chemistry of the Transition Metals, Seventh Edition provides new/enhanced chapter coverage of ligand-assisted additions and eliminations; proton-coupled electron transfer; surface, supported, and cooperative catalysis; green, energy, and materials applications; and photoredox catalysis. It covers coordination chemistry; alkyls and hydrides; Pi-complexes; and oxidative addition and reductive elimination. The book also features sections on insertion and elimination; spectroscopy; metathesis polymerization and bond activation; and more. Provides an excellent foundation of the fundamentals of organometallic chemistry Includes end-of-chapter problems and their solutions Expands and includes up-to-date examples of fundamental reaction steps and focuses on important topics such as oxidation catalysis, CH functionalization, nanoparticles, and green chemistry Features all new coverage for computational chemistry, energy production, and biochemical aspects of organometallic chemistry The Organometallic Chemistry of the Transition Metals, Seventh Edition is an insightful book that will appeal to all advanced undergraduate and graduate students in organic chemistry, organometallic chemistry, inorganic chemistry, and bioinorganic chemistry, as well as any practicing chemist in those fields.

This book reviews the development, characterization and applications of aptamers in different areas of biotechnology ranging from therapeutics to diagnostics and protein purification. Hailed as chemical antibodies, these single-stranded nucleic acid receptors were predicted to supersede antibodies in traditional assays, such as ELISA, within a short time. While this has yet to happen, readers will find in this book a deep insight into the progress of aptamer technology and a critical discussion about the limitations that need to be overcome in order to find wider acceptance and use outside of the still relatively small aptamer-community. This book covers all aspects of aptamer generation and application for the aptamer-experienced reader and curious novice alike, with the addition of an industry perspective on the future of aptamer-use in biotechnology.

This second edition of a very successful book is thoroughly updated with existing chapters completely rewritten while the content has more than doubled from 16 to 36 chapters. As with the first edition, the focus is on industrial pharmaceutical research, written by a team of industry experts from around the world, while quality and safety management, drug approval and regulation, patenting issues, and biotechnology fundamentals are also covered. In addition, this new edition now not only includes biotech drug development but also the use of biopharmaceuticals in diagnostics and vaccinations. With a foreword by Robert Langer, Kenneth J Germeshausen Professor of Chemical and Biomedical Engineering at MIT and member of the National Academy of Engineering and the National Academy of Sciences.

From its origins as a niche technique more than 15 years ago, fragment-based approaches have become a major tool for drug and ligand discovery, often yielding results where other methods have failed. Written by the pioneers in the field, this book provides a comprehensive overview of current methods and applications of fragment-based discovery, as well as an outlook on where the field is headed. The first part discusses basic considerations of when to use fragment-based methods, how to select targets, and how to build libraries in the chemical fragment space. The second part describes established, novel and emerging methods for fragment screening, including empirical as well as computational approaches. Special cases of fragment-based screening, e. g. for complex target systems and for covalent inhibitors are also discussed. The third part presents several case studies from recent and on-going drug discovery projects for a variety of target classes, from kinases and phosphatases to targeting protein-protein interaction and epigenetic targets.

Nanoarchitectures Built with Carbon Nanotubes and Magnetic Nanoparticles, Volume 630, the latest volume in the Methods in Enzymology series, continues the legacy of this premier serial with quality chapters authored by leaders in the field. New chapters in this volume include updates from well-known, established leaders. Contains the authority of authors who are leaders in their field Provides a comprehensive source on new methods and research in enzymology