Catalysis
Volume 28

Synopsis
Industrial and academic scientists face increasing challenges to find cost-effective and environmentally sound catalysts for a variety of applications. This volume provides a balanced and in-depth review of the modern approaches to some of these challenges covering major areas such as research and development of hydrocracking catalysts, using nanoclusters and preparation of foams.

Brief Contents
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Chemical Warfare Toxicology
Edited by Franz Worek, John Jenner and Horst Thiermann

Synopsis
Despite on-going efforts to prohibit the production, storage and use of chemical warfare agents, recent World events highlight the enduring threat to the population from these agents. Providing an up-to-date treatise on the on-going research into the toxicology of chemical warfare agents, this book will appeal to toxicologists, biochemists and weapons specialists working in industry and academia, and anyone with an interest in chemical warfare toxicology or exposure.

Brief Contents
- Development and use of chemical warfare agents
- Toxicology of Vesicant Chemical Warfare Agents
- Toxicology of Organophosphate Nerve Agents
- Toxicology of Phosgene
- Long-term effects of chemical warfare agents
- Toxicokinetics of chemical warfare agents
- PKPD of chemical warfare agents
- Methods of extrapolating animal toxicity data to man?
- Verification of exposure to chemical warfare agents
- Clinical and laboratory diagnosis of CWA exposure

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Compendium of Terminology and Nomenclature of Properties in Clinical Laboratory Sciences

Recommendations 2015

Georges Férard, René Dybkaer and Xavier Fuentes-Arderiu

Synopsis

There has been significant expansion and development in clinical laboratories sciences since the previous edition of this book was published in 1995. Some new disciplines have appeared and the interrelationships between different disciplines within clinical laboratory sciences demand a common structure and language for data exchange in the laboratory and with the clinicians. It is of prime importance to standardize laboratory reports for reliable exchange of patient examination data without loss of meaning or accuracy. For that, it is important to promote the unified format developed by IUPAC and IFCC. This book groups and updates the recommendations and will be appropriate for laboratory scientists, medical professionals and students in this area.

Brief Contents

- History of recommendations on properties and units in clinical laboratory sciences
- Definitions of some disciplines applied in the clinical laboratory
- Conventions and instructions for use
- Fundamental concepts in communication of clinical laboratory data
- Principles and practice of kinds-of-quantity and units
- Requesting, generating, and transmitting clinical laboratory data
- Choice and use of kinds-of-quantity for different examination purposes
- Kinds-of-quantity of dimension one: SI unit 1

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Synthetic Methods in Drug Discovery

Edited by David C Blakemore, Paul M Doyle and Yvette M Fobian

Synopsis
There are an overwhelming number of synthetic methods that can be used to create novel chemical motifs and templates with potentially valuable drug-like properties. This book will highlight key methods that have real impact in drug discovery and facilitate delivery of drug molecules. Uniquely, it will provide both academic and industrial perspectives on these key reactions giving the reader an excellent overview of the techniques used in modern synthesis. Reaction types will be conveniently framed in the context of their value to industry and the challenges and limitations of methodologies will be discussed with relevant illustrative examples. Moreover, the book will discuss key opportunities in expanding chemical space, including the important area of introducing three dimensional shape to the traditional flat molecules. Edited and authored by leading scientists from both academia and industry, this book will be a valuable reference for all chemists involved in drug discovery as well as postgraduate students in medicinal chemistry.

Brief Contents
- Suzuki, Negishi, Hiyama, Sonogashira and Heck couplings
- Buchwald and Chan-Lam couplings
- CH activation approaches to molecules, decarboxylative palladium mediated couplings, new frontiers with transition metals and SP2 SP3 couplings
- Organometallics and their use in the pharmaceutical industry
- Hydrogen borrowing chemistry and catalytic amide bond forming reactions
- Asymmetric hydrogenation, chiral reduction, dihydroxylation and epoxidation, the use of auxiliaries in industry and the potential of organocatalysis