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Carbohydrates are a vital part not only of metabolism, but are implicated as key coding molecules in a host of subtle biological events. The exploration of the role and the manipulation of this wonderful class of molecules is an exciting and ever changing field. This primer seeks to strip off some of the mystery that often surrounds carbohydrate chemistry, a subject taught in all undergraduate courses, by

highlighting and summarizing some of the central principles and ideas and by illustrating them with both classical and state-of-the-art examples.

The study of amino acids and peptides is becoming increasingly important to chemists becuase of the growing overlap of mainstream organic chemistry with bioorganic chemistry and biochemistry. This introductory text begins with a brief survey of the role and diversity of amino acids, peptides, and proteins in nature, and goes on to describe and explain the principal methods of chemical synthesis. With its emphasis on chemical principles and strategies rather than detailed technical matters, the book will be essential reading for all students of chemistry and biochemistry with an interest in this important field. This second edition contains extensive additions and adjustments, to present a completely up-to-date account of the chemical essentials of mainstream peptide synthesis.

This introductory text describes and explains the chemistry involved in the biosynthesis of secondary metabolites. It emphasises the pharmacological and toxicological significance of the compounds, and the final chapter reviews their ecological role.

Following the success of the first edition, this fully updated and revised book continues to provide an interdisciplinary introduction to sustainability issues in the context of chemistry and chemical technology. Its prime objective is to equip young chemists (and others) to more fully to appreciate, defend and promote the role that chemistry and its practitioners play in moving towards a society better able to control, manage and ameliorate its impact on the ecosphere. To do this, it is necessary to set the ideas, concepts, achievements and challenges of chemistry and its application in the context of its

environmental impact, past, present and future, and of the changes needed to bring about a more sustainable yet equitable world. Progress since 2010 is reflected by the inclusion of the latest research and thinking, selected and discussed to put the advances concisely in a much wider setting - historic, scientific, technological, intellectual and societal. The treatment also examines the complexities and additional challenges arising from public and media attitudes to science and technology and associated controversies and from the difficulties in reconciling environmental protection and global development. While the book stresses the central importance of rigour in the collection and treatment of evidence and reason in decision-making, to ensure that it meets the needs of an extensive community of students, it is broad in scope, rather than deep. It is, therefore, appropriate for a wide audience, including all practising scientists and technologists. Extracts from reviews of the first edition: 'The book forms the basis for a superb training course on sustainability from a chemist's viewpoint, and a wonderful introduction to the subject for undergraduates and postgraduates... this unique book is highly recommended reading for all chemists' Trevor Laird, Org. Process Res. Dev., 2013, 17(7), 991 'I would even go so far as to recommend this to any serious graduate or undergraduate scientist as a must read' David Harwood, Reviews: A Guide to Publications in the Physical Sciences, 2011, 12(1), 9

Long gone are the days when synthetic publications included parallel preparative experiments to document reproducibility of the experimental protocols and when journals required such documentation. The new Proven Synthetic Methods Series addresses concerns to chemists regarding irreproducibility of synthetic protocols, lack of characterization data for new compounds, and inflated yields reported in many chemical communications—trends that have recently become a serious problem. Volume One of Carbohydrate Chemistry: Proven Synthetic Methods includes more detailed versions of protocols

previously published for the synthesis of oligosaccharides, C-glycosyl compounds, sugar nucleotides, click chemistry, thioglycosides, and thioimidates, among others. The compilation of protocols covers both common and less frequently used synthetic methods as well as examples of syntheses of selected carbohydrate intermediates with general utility. The major focus of this book is devoted to the proper practice of state-of-the-art preparative procedures, including: References to the starting materials used, reaction setup, work-up and isolation of products, followed by identification and proof of purity of the final material General information regarding convenience of operation and comments on safety issues Versatile and practically useful methods that have not received deserved, long-lasting recognition or that are difficult to access from their primary sources Copies of 1D NMR spectra of compounds prepared, showing purity of materials readers can expect Exploring carbohydrate chemistry from the academic points of view, the Carbohydrate Chemistry: Proven Synthetic Methods Series provides a compendium of preparatively useful procedures checked by chemists from independent research groups.

The first edition of Food processing technology was quickly adopted as the standard text by many food science and technology courses. This completely revised and updated third edition consolidates the position of this textbook as the best single-volume introduction to food manufacturing technologies available. This edition has been updated and extended to include the many developments that have taken place since the second edition was published. In particular, advances in microprocessor control of equipment, 'minimal' processing technologies, functional foods, developments in 'active' or 'intelligent' packaging, and storage and distribution logistics are described. Technologies that relate to cost savings, environmental improvement or enhanced product quality are highlighted. Additionally, sections in each chapter on the impact of processing on food-borne micro-organisms are included for the

first time. Introduces a range of processing techniques that are used in food manufacturing Explains the key principles of each process, including the equipment used and the effects of processing on micro-organisms that contaminate foods Describes post-processing operations, including packaging and distribution logistics

This excellent work fills the need for an upper-level graduate course resource that examines the latest biochemical, biophysical, and molecular biological methods for analyzing the structures and physical properties of biomolecules... This reviewer showed [the book] to several of his senior graduate students, and they unanimously gave the book rave reviews. Summing Up: Highly recommended... CHOICE Chemical biology is a rapidly developing branch of chemistry, which sets out to understand the way biology works at the molecular level. Fundamental to chemical biology is a detailed understanding of the syntheses, structures and behaviours of biological macromolecules and macromolecular lipid assemblies that together represent the primary constituents of all cells and all organisms. The subject area of chemical biology bridges many different disciplines and is fast becoming an integral part of academic and commercial research. This textbook is designed specifically as a key teaching resource for chemical biology that is intended to build on foundations lain down by introductory physical and organic chemistry courses. This book is an invaluable text for advanced undergraduates taking biological, bioorganic, organic and structural chemistry courses. It is also of interest to biochemists and molecular biologists, as well as professionals within the medical and pharmaceutical industry. Key Features: A comprehensive introduction to this dynamic area of chemistry, which will equip chemists for the task of understanding and studying the underlying principles behind the functioning of biological macro molecules, macromolecular lipid assemblies and cells. Covers many basic concepts and ideas associated

with the study of the interface between chemistry and biology. Includes pedagogical features such as: key examples, glossary of equations, further reading and links to websites. Clearly written and richly illustrated in full colour.

An important reference for researchers in the field of metal-enzyme hybrid catalysis Artificial Metalloenzymes and MetalloDNAzymes in Catalysis offers a comprehensive review of the most current strategies, developed over recent decades, for the design, synthesis, and optimization of these hybrid catalysts as well as material about their application. The contributors□noted experts in the field□present information on the preparation, characterization, and optimization of artificial metalloenzymes in a timely and authoritative manner. The authors present a thorough examination of this interesting new platform for catalysis that combines the excellent selective recognition/binding properties of enzymes with transition metal catalysts. The text includes information on the various applications of metal-enzyme hybrid catalysts for novel reactions, offers insights into the latest advances in the field, and contains an informative perspective on the future: Explores the development of artificial metalloenzymes, the modern and strongly evolving research field on the verge of industrial application Contains a comprehensive reference to the research area of metal-enzyme hybrid catalysis that has experienced tremendous growth in recent years Includes contributions from leading researchers in the field Shows how this new catalysis combines the selective recognition/binding properties of enzymes with transition metal catalysts Written for catalytic chemists, bioinorganic chemists, biochemists, and organic chemists, Artificial Metalloenzymes and MetalloDNAzymes in Catalysis offers a unique reference to the fundamentals, concepts, applications, and the most recent developments for more efficient and sustainable synthesis.

Sugar chains (glycans) are often attached to proteins and lipids and have multiple roles in the organization and function of all organisms. "Essentials of Glycobiology" describes their biogenesis and function and offers a useful gateway to the understanding of glycans.

This expansive and practical textbook contains organic chemistry experiments for teaching in the laboratory at the undergraduate level covering a range of functional group transformations and key organic reactions.The editorial team have collected contributions from around the world and standardized them for publication. Each experiment will explore a modern chemistry scenario, such as: sustainable chemistry; application in the pharmaceutical industry; catalysis and material sciences, to name a few. All the experiments will be complemented with a set of questions to challenge the students and a section for the instructors, concerning the results obtained and advice on getting the best outcome from the experiment. A section covering practical aspects with tips and advice for the instructors, together with the results obtained in the laboratory by students, has been compiled for each experiment. Targeted at professors and lecturers in chemistry, this useful text will provide up to date experiments putting the science into context for the students.