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The focus of this singular work is to discuss the role and importance of bioorganic phase in food products- providing the first major reference source for researchers looking to understand all aspects of the isolation, extraction and application of this major element in natural foods. From the identifying features to its applications through biotechnology and nanobiotechnology, this book covers all of the important aspects of bioorganic phase and points to future uses and methods. With chapters focusing on phase extraction and application, food product synthesis and nanoparticle application, *Bioorganic Phase in Natural Food: An Overview* covers both conventional and non-conventional approaches for the extraction of bioorganic phase from various food sources. Toxicity studies in nanoparticles are presented, and the vital role played by bioorganic phase toward nanoparticles synthesis is outlined in full. For any researcher looking for complete coverage of all main aspects of bioorganic phase in foods, this work provides a comprehensive and well-researched view of this important subject. .

The Arabian Seas Marine Region encompasses marine areas from Djibouti to Pakistan, including the northern part of Somalia, the Red Sea, the Arabian/Persian Gulf, and parts of the Arabian Sea. Human pressures on the coastal and marine environments are evident throughout the region, and have resulted in harmful environmental effects. Oil and domestic, urban and industrial pollutants in several areas of this part of the world have caused

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local habitat degradation, eutrophication and algal blooms. Further, coastal landfill, dredging, and sedimentation, as well as nutrient and sediment runoff from phosphate mining, agriculture and grazing, and reduction in freshwater seepage due to groundwater extraction are all contributing to the degradation of coastal environments. This book discusses aspects not covered in other books on the region, which largely focus on marine biodiversity, and examines several environmental challenges that are often ignored, but which have a significant impact on the environment. Evaluating the status quo, it also recommends conservation measures and examines the abiotic factors that play a major main role in the environmental changes. Lastly, the book addresses the biodiversity of the area, providing a general context for the conservation and management measures discussed.

This text identifies common mistakes and challenges in food preservation in developing countries, offering solutions which can play a significant role in reducing food waste in these countries. The book offers critical analysis of current preservation techniques for fruits and vegetables, meat, fish, dairy, and grain, identifying key mistakes and challenges and proposing effective solutions. Feasibility tests for implementing these innovative approaches are also presented. A well-rounded study of the various causes of food waste in developing nations, this book plays a key role in bringing effective food preservation methods to the developing world. Food Preservation in Developing Countries: Challenges and solutions studies common food

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preservation techniques for fruits and vegetables, fish, meat, dairy, and grains, pinpointing the areas where waste occurs due to transportation, contamination, and low quality post processing. Innovative potential solutions are presented, including the feasibility of implementation of these advanced preservation techniques. The book takes a critical look at barriers to proper food preservation in these regions and offers practical solutions which can be implemented in a cost effective and timely manner. With almost one third of the world's food supply wasted each year and 13% of the world's inhabitants going hungry, this is an incredibly important and timely text.

The only book series to summarize the latest progress on organic reaction mechanisms, *Organic Reaction Mechanisms*, 1983 surveys the development in understanding of the main classes of organic reaction mechanisms reported in the primary scientific literature in 1983. The 19th annual volume in this highly successful series highlights mechanisms of stereo-specific reactions. Reviews are compiled by a team of experienced editors and authors, allowing advanced undergraduates, graduate students, postdocs, and chemists to rely on the volume's continuing quality of selection and presentation.

This book addresses the highly relevant and complex subject of research on drugs from natural products, discussing the current hot topics in the field. It also provides a detailed overview of the strategies used to research and develop these drugs. Respected experts explore issues involved in the production chain and when

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looking for new medicinal agents, including aspects such as therapeutic potential, functional foods, ethnopharmacology, metabolomics, virtual screening and regulatory scenarios. Further, the book describes strategic methods of isolation and characterization of active principles, biological assays, biotechnology of plants, synthesis, clinical trials and the use of tools to identify active principles.

Best-selling introductory chemical engineering book - now updated with far more coverage of biotech, nanotech, and green engineering • Thoroughly covers material balances, gases, liquids, and energy balances. • Contains new biotech and bioengineering problems throughout. • Adds new examples and homework on nanotechnology, environmental engineering, and green engineering. • All-new student projects chapter. • Self-assessment tests, discussion problems, homework, and glossaries in each chapter. Basic Principles and Calculations in Chemical Engineering, 8/e, provides a complete, practical, and student-friendly introduction to the principles and techniques of modern chemical, petroleum, and environmental engineering. The authors introduce efficient and consistent methods for solving problems, analyzing data, and conceptually understanding a wide variety of processes. This edition has been revised to reflect growing interest in the life sciences, adding biotechnology and bioengineering problems and examples throughout. It also adds many new examples and homework assignments on nanotechnology, environmental, and green engineering, plus many updates to existing examples. A new chapter

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presents multiple student projects, and several chapters from the previous edition have been condensed for greater focus. This text's features include:

- Thorough introductory coverage, including unit conversions, basis selection, and process measurements.
- Short chapters supporting flexible, modular learning.
- Consistent, sound strategies for solving material and energy balance problems.
- Key concepts ranging from stoichiometry to enthalpy.
- Behavior of gases, liquids, and solids.
- Many tables, charts, and reference appendices.
- Self-assessment tests, thought/discussion problems, homework problems, and glossaries in each chapter.

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being an important part of keeping this knowledge alive and relevant.

This survey of advanced chemistry covers virtually all the useful reactions--600 all told--with the scope, limitations, and mechanism of each described in detail. Extensive general sections on the mechanisms of the important reaction types, and five chapters on the structure and stereochemistry of organic compounds and reactive intermediates are included as well. Of the more than 10,000 references included, 5,000 are new in this edition.

This book compiles the latest research on the multifarious roles of microbial enzymes, and provides an overview of microbial enzymes and biotechnologies. It discusses the use of microbial enzymes in innovative areas like nanomedicine and synthetic biotechnology, as well as the use of starch digesting enzymes and bioactive proteins as biotherapeutics, all of which have applications in modern drug discovery processes. The book also examines the concept of microbial biotransformation and protein engineering, and covers topics such as the immobilization of therapeutic enzymes, bioengineering of enzymes for bioactive compounds, the production of hydrolytic and oxidative enzymes from plant raw materials, and prebiotics and probiotics. Given its multidisciplinary scope, this book will appeal to researchers and industry experts in the fields of microbiology, biotechnology and molecular medicine. The series Topics in Heterocyclic Chemistry presents critical reviews on present and future trends in the research of heterocyclic compounds. Overall the scope

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is to cover topics dealing with all areas within heterocyclic chemistry, both experimental and theoretical, of interest to the general heterocyclic chemistry community. The series consists of topic related volumes edited by renowned editors with contributions of experts in the field. All chapters from Topics in Heterocyclic Chemistry are published Online First with an individual DOI. In references, Topics in Heterocyclic Chemistry is abbreviated as Top Heterocycl Chem and cited as a journal.

The aim of this book is to help people performing routine operations in Organic Synthesis in a laboratory. This book, the first one in a series, focuses on the oxidation of alcohols to aldehydes and ketones. Probably, this is the most important routine operation in Organic Synthesis.

Handbook of Microalgal Culture is truly a landmark publication, drawing on some 50 years of worldwide experience in microalgal mass culture. This important book comprises comprehensive reviews of the current available information on microalgal culture, written by 40 contributing authors from around the globe. The book is divided into four parts, with Part I detailing biological and environmental aspects of microalgae with reference to microalgal biotechnology and Part II looking in depth at major theories and techniques of mass cultivation. Part III comprises chapters on the economic applications of microalgae, including coverage of industrial production, the use of microalgae in human and animal nutrition and in aquaculture, in nitrogen fixation, hydrogen and methane production, and in bioremediation of

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polluted water. Finally, Part IV looks at new frontiers and includes chapters on genetic engineering, microalgae as platforms for recombinant proteins, bioactive chemicals, heterotrophic production, microalgae as gene-delivery systems for expressing mosquitoicidal toxins and the enhancement of marine productivity for climate stabilization and food security. Handbook of Microalgal Culture is an essential purchase for all phycologists and also those researching aquatic systems, aquaculture and plant sciences. There is also much of great use to researchers and those involved in product formulation within pharmaceutical, nutrition and food companies. Libraries in all universities and research establishments teaching and researching in chemistry, biological and pharmaceutical sciences, food sciences and nutrition, and aquaculture will need copies of this book on their shelves. Amos Richmond is at the Blaustein Institute for Desert Research, Ben-Gurion University of the Negev, Israel.

Ecdysone is the steroidal prohormone of the major insect moulting hormone 20-hydroxyecdysone. It groups with its homologues the steroidal molting hormones in arthropods, but they also occur in other phyla where they can play different roles. Besides ecdysteroids appear in many plants mostly as protection agents (toxins or antifeedants) against herbivorous insects. The important developments and achievements in modern ecdysone science since the first edition in 1989 by J. Koolman have led to this new revised, expanded and retitled reference work. New chapters in this edition include RNA interference, the ecdysone receptor crystal structures

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and structure activity relationships, etc. Each article may also be read independently, as a review of that particular subject. Complete up-to-date coverage of many important topics - the book is divisible into five conceptual areas: (1) Distribution and diversity of ecdysteroids in the two kingdoms is still basis, (2) In the post-genomic era, ecdysteroid genetic hierarchies in insect growth and reproduction, (3) Role of cross talk of genes and growth factors in ecdysteroid titers and signaling, (4) Ecdysteroids function through nuclear and membrane receptors, and (5) Ecdysteroids in modern agriculture, medicine, doping and ecotoxicology. Each of the 23 chapters is written by scientists active in the reviewed research area and a truly distinguished international team of contributors has been chosen. Ecdysone, Structures and Functions will be of immense use and contains essential information for scientists, students, and professionals alike in entomology, endocrinology, physiology, chemistry, and agricultural, plant, biomedicine and environmental sciences. Algal Culturing Techniques is a comprehensive reference on all aspects of the isolation and cultivation of marine and freshwater algae, including seaweeds. It is divided into seven parts that cover history, media preparation, isolation and purification techniques, mass culturing techniques, cell counting and growth measurement techniques, and reviews on topics and applications of algal culture techniques for environmental investigations. Algal Culturing Techniques was developed to serve as both a new textbook and key reference for phycologists and others studying aquatic

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systems, aquaculture and environmental sciences. Students of algal ecology, marine botany, marine phycology, and microbial ecology will enjoy the hands-on methodology for culturing a variety of algae from fresh and marine waters. Researchers in industry, such as aquaculture, pharmaceutical, foodstuffs, and biotechnology companies will find an authoritative and comprehensive reference. * Sponsored by the Phycological Society of America * Features color photographs and illustrations throughout * Describes culturing methods ranging from the test tube to outdoor ponds and coastal seaweed farms * Details isolation techniques ranging from traditional micropipette to automated flow cytometric methods * Includes purification, growth, maintenance, and cryopreservation techniques * Highlights methods for estimating algal populations, growth rates, isolating and measuring algal pigments, and detecting and culturing algal viruses * Features a comprehensive appendix of nearly 50 algal culture medium recipes * Includes a glossary of phycological terms

In this book, the author provides expert analysis on naturally occurring iridoids, their chemistry and their distribution in plants and insects. Particular attention is given to the pharmacology of iridoids and their prospective applications in pharmaceutical and agricultural industries. Iridoids are found in a wide variety of plants and some insects, and they are structurally derived from monoterpenoid natural products. In the first two chapters of this book, the author describes the iridoids classification, occurrence and distribution in

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plants and insects. The following chapters cover different chromatographic and spectroscopic techniques that can be used to identify and quantify iridoids in herbal formulations, and also the biosynthesis of iridoids, in which the reader will discover a metabolomics and transcriptomics analysis to identify the genes involved in the biosynthesis. The final chapters provide insights on several pharmacological activities of iridoids, their physiological role in insects, pharmacokinetics in mammals, insects and microorganisms, and their applications in medicine and agriculture. This book will engage students and researchers interested in the chemistry of natural products, and it will also appeal to medicinal chemists and practitioners working in the design of new herbal drugs with bioactive pure iridoids. From the reviews of the Fourth Edition ... "March has been uncompromising in his search for clarity and utility in presentations of a wide variety of essential organic chemistry. It remains an accessible and useful tool for both specialists and nonspecialists in the field. It does an excellent job both as a text for first-year graduate students and a handy reference for others."-Journal of Chemical Education "The ratio of information to price makes this book a wonderful bargain."-American Scientist New to this Fifth Edition: * Michael Smith from the University of Connecticut joins as coauthor for the Fifth Edition * Contains 20,000 valuable, selected references to the primary literature-5,000 new to this edition * 40 entirely new sections covering the most important developments in organic chemistry since the previous edition * Updated illustrations of molecular

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structures

This book presents key aspects of organic synthesis – stereochemistry, functional group transformations, bond formation, synthesis planning, mechanisms, and spectroscopy – and a guide to literature searching in a reader-friendly manner. • Helps students understand the skills and basics they need to move from introductory to graduate organic chemistry classes • Balances synthetic and physical organic chemistry in a way accessible to students • Features extensive end-of-chapter problems • Updates include new examples and discussion of online resources now common for literature searches • Adds sections on protecting groups and green chemistry along with a rewritten chapter surveying organic spectroscopy

Over the last few decades, unprecedented global population growth has led to increased demand for food and shelter. At the same time, extraction of natural resources beyond the Earth's resilience capacity has had a devastating effect on ecosystems and environmental health. Furthermore, climate change is having a significant impact in a number of areas, including the global hydrological cycle, ecosystem functioning, coastal vulnerability, forest ecology, food security, and agricultural sustainability. According to the Intergovernmental Panel on Climate Change (IPCC), only immediate and sustained action will prevent climate change causing

irreversible and potentially catastrophic damage to our environment. This book presents various scientific views and concepts, research, reviews, and case studies on contemporary environmental issues in changing climate scenarios and highlights different adaptation measures. Increasing awareness of modern-day patterns of climate change, it addresses questions often raised by environmental scientists, researchers, policymakers and general readers.

Giovanni Poli, Guillaume Prestat, Frédéric Liron, Claire Kammerer-Pentier: Selectivity in Palladium Catalyzed Allylic Substitution.- Jonatan Kleimark and Per-Ola Norrby: Computational Insights into Palladium-mediated Allylic Substitution Reactions.- Ludovic Milhau, Patrick J. Guiry: Palladium-catalyzed enantioselective allylic substitution.- Wen-Bo Liu, Ji-Bao Xia, Shu-Li You: Iridium-Catalyzed Asymmetric Allylic Substitutions.- Christina Moberg: Molybdenum- and Tungsten-Catalyzed Enantioselective Allylic Substitutions.- Jean-Baptiste Langlois, Alexandre Alexakis: Copper-catalyzed enantioselective allylic substitution.- Jeanne-Marie Begouin, Johannes E. M. N. Klein, Daniel Weickmann, B. Plietker: Allylic Substitutions Catalyzed by Miscellaneous Metals.- Barry M. Trost, Matthew L. Crawley: Enantioselective Allylic Substitutions in Natural Product Synthesis.

"Flow Chemistry fills the gap in graduate education by covering chemistry and reaction principles along

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with current practice, including examples of relevant commercial reaction, separation, automation, and analytical equipment. The Editors of Flow Chemistry are commended for having taken the initiative to bring together experts from the field to provide a comprehensive treatment of fundamental and practical considerations underlying flow chemistry. It promises to become a useful study text and as well as reference for the graduate students and practitioners of flow chemistry." Professor Klavs Jensen Massachusetts Institute of Technology, USA Broader theoretical insight in driving a chemical reaction automatically opens the window towards new technologies particularly to flow chemistry. This emerging concept promotes the transformation of present day's organic processes into a more rapid continuous set of synthesis operations, more compatible with the envisioned sustainable world. These two volumes Fundamentals and Applications provide both the theoretical foundation as well as the practical aspects.

By significantly increasing the number of targets available for drug discovery, the Human Genome and Proteome projects have made the use of combinatorial libraries essential to developing and optimizing drug candidate molecules more rapidly. Lisa English and a panel of expert researchers have collected in Combinatorial Library Methods and Protocols a novel series of computational and

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laboratory methods for the design, synthesis, quality control, screening, and purification of combinatorial libraries. Here the reader will find cutting-edge techniques for the preparation of encoded combinatorial libraries, for the synthesis of DNA-binding polyamides, and for combinatorial receptors. There are also state-of-the-art methods for computational library design, quality control by mass spectrometry, and structure verification using 1D and 2D NMR. A variety of well-known computational approaches are provided to meet the information management challenge of multiple biological assays. Each readily reproducible technique includes detailed step-by-step instructions and helpful notes on troubleshooting and avoiding pitfalls. Timely and highly practical, *Combinatorial Library Methods and Protocols* makes available for all drug discovery researchers all the powerful combinatorial chemistry tools that are increasing the number of candidate compounds and speeding the process of drug discovery and development today.

The first contribution summarizes current trends in research on medicinal plants in Mexico with emphasis on work carried out at the authors' laboratories. The most relevant phytochemical and pharmacological profiles of a selected group of plants used widely for treating major national health problems are described. The second contribution provides a detailed survey of the so far reported

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literature data on the capacities of selected oxyprenylated phenylpropanoids and polyketides to trigger receptors, enzymes, and other types of cellular factors for which they exhibit a high degree of affinity and therefore evoke specific responses. And the third contribution discusses aspects of endophytic actinobacterial biology and chemistry, including biosynthesis and total synthesis of secondary metabolites produced in culture. It also presents perspectives for the future of microbial biodiscovery, with emphasis on the secondary metabolism of endophytic actinobacteria.

Microalgae are sunlight driven single-cell factories for protein, lipids, carbohydrates, pigments, vitamins and minerals, etc. Microalgae have long been used as health food and additives for human consumption, as well as animal feed in aquaculture. Microalgae also prove to be beneficial to environmental cleanup such as bioremediation of industrial flue gases and waste water. Recently, owing to the demand of renewable energy, microalgal biofuels, biodiesel in particular, have attracted unprecedented interest. Also, microalgae emerge as promising hosts for the expression of recombinant proteins. Nevertheless, there are still tremendous challenges involved in the algae production pipeline such as strain improvement, mass cultivation, harvest and drying, biomass disruption, and recycling of water and nutrients, which have been impeding commercial

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application of microalgae in many different ways. The great opportunities lying ahead will be the innovations and breakthroughs occurred in microalgal biotechnology. This book brings together recent advances in microalgal biotechnology, dedicated to both the understanding of the fundamentals and development of industry-oriented technologies.

Synthesis of Medicinal Agents from Plants highlights the importance of synthesizing medicinal agents from plants and outlines methods for performing it effectively. Beginning with an introduction to the significance of medicinal plants, the book goes on to provide a historical overview of drug synthesis before exploring how this can be used to successfully replicate and adapt the active agents from natural sources. Chapters then explore the medicinal properties of a number of important plants, before concluding with a discussion of the future of drugs from medicinal plants. Illustrated with real-world examples, it is a practical resource for researchers in this field. In an age of rapid environmental destruction, hundreds of medicinal plants are at risk of extinction from overexploitation and deforestation, limiting the natural resources available for active agent extraction, thereby threatening the discovery of future cures for diseases. Simultaneously, with the increasing population and advances in medical sciences, the

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demand for drugs is continuously increasing and cannot be met with just plants. The ability to synthetically replicate the active compounds from these plants is essential in creating an ecologically-aware, sustainable future for drug design Includes detailed coverage of therapeutic compound synthesis Uses multiple real-world examples to support content Lays out a sustainable template for the future of developing active agents from natural products

Synthesis of Carbon-Phosphorus Bonds, Second Edition is a working guide for the laboratory, incorporating classical approaches with the recent developments of carbon-phosphorus (C-P) bond formation. These advances include the preparation of phosphoranes - specifically in the use of transient oxophosphoranes as intermediates in organophosphorus comp

Before the concept of history began, humans undoubtedly acquired life benefits by discovering medicinal and aromatic plants (MAPs) that were food and medicine. Today, a variety of available herbs and spices are used and enjoyed throughout the world and continue to promote good health. The international market is also quite welcoming for MAPs and essential oils. The increasing environment and nature conscious buyers encourage producers to produce high quality essential oils. These consumer choices lead to growing preference for organic and herbal based products in the world market. As the benefits of medicinal and aromatic plants are recognized, these plants will have a special role for humans in the future. Until last century, the production of botanicals relies to a large degree on wild-collection. However, the increasing commercial collection, largely

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unmonitored trade, and habitat loss lead to an incomparably growing pressure on plant populations in the wild. Therefore, medicinal and aromatic plants are of high priority for conservation. Given the above, we bring forth a comprehensive volume, "Medicinal and Aromatic Plants: Healthcare and Industrial Applications," highlighting the various healthcare, industrial and pharmaceutical applications that are being used on these immensely important MAPs and its future prospects. This collection of chapters from the different areas dealing with MAPs caters to the need of all those who are working or have interest in the above topic. This volume provides an overview of recent developments and scope in the use of flow chemistry in relevance to heterocyclic synthesis. The heterocyclic ring is the most prominent structural motif in the vast majority of natural products as well as pharmaceutical compounds since this facilitates tuneable interactions with the biological target besides conferring a degree of structural and metabolic stability. In recent times, flow chemistry has heralded a paradigm shift in organic synthesis as it offers several unique advantages over conventional methods like drastic acceleration of sluggish transformations, enhanced yields, cleaner reactions etc and is gradually gaining a lot of attention among organic chemist worldwide. Given the importance of heterocycles in natural products, medicinal chemistry and pharmaceuticals, this is a well warranted volume and complements the previous volume of Topics in Organometallic Chemistry 'Organometallic Flow Chemistry'. This volume offers a versatile overview of the topic, besides discussing the recent progress in the flourishing area of flow chemistry in relevance to heterocyclic chemistry; it will also help researchers to better understand the chemistry behind these reactions. This in turn provides a platform for future innovations towards the designing of novel transformations

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under continuous flow. Thus, this volume will appeal to both the novices in this field as well as to experts in academia and industry.

Aimed at advanced undergraduate and graduate students and researchers working with natural products, Professors Sunil and Bani Talapatra provide a highly accessible compilation describing all aspects of plant natural products. Beginning with a general introduction to set the context, the authors then go on to carefully detail nomenclature, occurrence, isolation, detection, structure elucidation (by both degradation and spectroscopic techniques) stereochemistry, conformation, synthesis, biosynthesis, biological activity and commercial applications of the most important natural products of plant origin. Each chapter also includes detailed references (with titles) and a list of recommended books for additional study making this outstanding treatise a useful resource for teachers of chemistry and researchers working in universities, research institutes and industry.

Early Main Group Metal Catalysis gives a comprehensive overview of catalytic reactions in the presence of group 1 and group 2 metals. Chapters are ordered to reaction type, contain educational elements and deal with concepts illustrated by examples that cover the main developments. After a short introduction on polar organometallic chemistry and synthesis of early main group metal complexes, a variety of catalytic reactions are described, e.g. polymerization of alkenes, hydroamination and phosphination reactions, hydrosilylation, hydroboration and hydrogenation catalysis, as well as enantioselective and Lewis-acid catalysis. The book addresses organic chemists and researchers in industry interested in the state-of-the-art and new possibilities of early main group metal catalysis as well as newcomers to the field. Written by a team of leaders in the field, it is a very welcome addition to the area of main group metal chemistry, and to the

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field of catalysis.

March's Advanced Organic Chemistry Reactions, Mechanisms, and Structure John Wiley & Sons
Parsis of Ancient India Sagwan Press

This book provides comprehensive coverage of the application of P-stereogenic ligands in homogeneous catalysis.

A century after their discovery, phosphonates have become important compounds recognized both for their use as efficient reagents in organic synthesis and for their biological and industrial importance. This unique, up-to-date reference presents a concise summary of the state of the art in phosphonate chemistry, covering the role of phosphonates in The book provides illuminating insights into fundamental chemistry and also practical value for students who will go on to teach, research or be involved in other scientific roles.

Lignans are a class of natural products found mainly in plants. They have a wide variety of structures and exhibit a range of potent biological activities. Lignans are also well-known components of a number of widely eaten foods and are frequently studied for their dietary impact. Owing to these factors, lignans have been extensively studied by scientists from a large number of disciplines. This collection of research and review articles describes topics ranging in scope from the recent isolation and structural elucidation of new lignans, strategies towards the chemical synthesis of lignans, assessment of their biological activities and potential for further therapeutic development. Research showing the impact of lignans in the food and agricultural industries is also presented. Natural product chemistry has undergone an explosive

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growth during the latter half of the current century. This has been brought about by a number of factors. One of these has been the growing number of substances from natural sources which display interesting pharmacological activities. These include antibiotics, anti-tumor agents, immunostimulants, drugs affecting the cardiovascular and central nervous systems, analgesics etc. Another factor has been the improvements made in the technology of isolation processes which includes the development of such techniques as high pressure liquid chromatography which has allowed the rapid isolation of substances which were previously difficult to obtain by classical procedures. The most important factor has been the development of new spectroscopic techniques which have opened up whole new vistas in this exciting field. Prominent in these advances has been the advent of powerful superconducting magnets with very stable magnetic fields, and pulse NMR in which the duration, direction and phases of pulses can be accurately controlled by means of mini computers. These have heralded the advent of two-dimensional NMR spectroscopy which has now come to be routinely employed in unravelling complex structures. No less important, though somewhat less dramatic, have been the advances made in the field of mass spectroscopy where new ionization techniques such as positive and negative fast atom bombardment, field desorption, chemical ionization etc. have allowed the mass spectra of larger non-volatile substances to be recorded. The field of organic synthesis has seen equally rapid advances. In view of increasing interest in organofluorine

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compounds, this book was undertaken to describe biological and physical properties of organofluorine compounds, synthetic methods of these, their roles in pharmaceutical, agrochemical and material sciences. In particular, the book will emphasize on the usefulness of fluorination reaction, availability of fluorination agents, so that even graduate students who are unfamiliar to this field can understand and participate in this fascinating heteroatom chemistry.

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