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Essential Code and Commands Bentham Science Publishers
Carboranes, Third Edition, by Russell Grimes, is the definitive resource on the subject. Completely updated with a wealth of research and review articles published in this active field since the previous volume was released in 2011, the book provides a readable and concise introduction to the basic principles underlying the synthesis, structures, and reactions of carboranes, heterocarboranes, and metallocarboranes. Following the valuable foundational information, the book explores the advances in practical applications for the many areas in which experts have discovered that carboranes afford new possibilities for solving problems and advancing the science. These disciplines include polymer science, catalysis, biomedicine, nanomaterials, and others. Includes over 2,000 molecular structure drawings throughout the text Features expanded coverage on applications of carboranes, particularly in biomedicine and nanomaterials, given the growth of research in these areas Presents extended and updated tables, listing thousands of compounds with key literature references, provided online via the book's website Explores the advances in practical applications for the many areas in which experts have discovered that carboranes afford new possibilities for solving problems and advancing the science

The Alkaloids Academic Press

This book aims to provide readers with the latest and relevant trends in corrosion. Use of inhibitors is one of the most common, cheap, and globally followed methods for the protection of metals from aggressive solutions. The information contained in this book covers different corrosion inhibitors for different corrosive environments with sufficient experimental data, surface studies, and theoretical studies. These studies altogether will give readers a good view of the basic and advanced knowledge of corrosion inhibitors and will be of interest to students, academicians, and industrialists.

Advances in Microwave Chemistry Academic Press

Chemistry for the IB Diploma, Second edition, covers in full the requirements of the IB syllabus for Chemistry for first examination in 2016. This digital version of Chemistry for the IB Diploma Coursebook, Second edition, comprehensively covers all the knowledge and skills students need during the Chemistry IB Diploma course, for first examination in 2016, in a reflowable format, adapting to any screen size or device. Written by renowned experts in Chemistry teaching, the text is written in an accessible style with international learners in mind. Self-assessment questions allow learners to track their progress, and exam-style questions help learners to prepare thoroughly for their examinations. Answers to all the questions from within the Coursebook are provided.

Ion Mobility-Mass Spectrometry Springer

Synthetic Methods in Drug Discovery Volume 1 focusses on the hugely important area of transition metal mediated methods used in industry. Current methods of importance such as the Suzuki-Miyaura coupling, Buchwald-Hartwig couplings and CH activation are discussed. In addition, exciting emerging areas such as decarboxylative coupling, and the uses of iron and nickel in coupling reactions are also covered. This book provides both academic and industrial perspectives on some key reactions giving the reader an excellent overview of the techniques used in modern synthesis. Reaction types are conveniently framed in the context of their value to industry and the challenges and limitations of methodologies are discussed with relevant illustrative examples. 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.

Bioactive Natural Products Cambridge University Press

The development of novel materials whose structure, properties or function are inspired by nature or living matter is a wide and dynamically evolving field. There is virtually no field of scientific endeavour that has not felt the touch of the 'bioinspired' ethos. Bioinspired Inorganic Materials provides an up-to-date review of the research, with some historical context. The emphasis throughout is on how bioinspiration is being used for cutting-edge applications. Chapters in the book cover big breakthroughs in bioinspiration for energy applications, surface technology, metamaterials and ceramics for regenerative medicine. Edited and written by world-renowned scientists, this book will provide a comprehensive introduction for advanced undergraduates, postgraduates and researchers wishing to learn about the topic.

Scalable Reactions and Technologies Cambridge University Press

Green Chemistry: An Inclusive Approach provides a broad overview of green chemistry for researchers from either an environmental science or chemistry background, starting at a more elementary level, incorporating more advanced concepts, and including more chemistry as the book progresses. Every chapter includes recent, state-of-the-art references, in particular, review articles, to introduce researchers to this field of interest and provide them with information that can be easily built upon. By bringing together experts in multiple subdisciplines of green chemistry, the editors have curated a single central resource for an introduction to the discipline as a whole. Topics include a broad array of research fields, including the chemistry of Earth's atmosphere, water and soil, the synthesis of fine chemicals, and sections on pharmaceuticals, plastics, energy related issues (energy storage, fuel cells, solar, and wind energy conversion etc., greenhouse gases and their handling, chemical toxicology issues of everyday products (from perfumes to detergents or clothing), and environmental policy issues. Introduces the topic of green chemistry with an overview of key concepts Expands upon presented concepts with the latest research and applications, providing both the breadth and depth researchers need Includes a broad range of application based problems to make the content accessible for professional researchers and undergraduate and graduate students

Authored by experts in a broad range of fields, providing insider information on the aspects or challenges of a given field that are most important and urgent

Introducing the IB Diploma Programme Elsevier

The most comprehensive match to the new 2014 Chemistry syllabus, this completely revised edition gives you unrivalled support for the new concept-based approach, the Nature of science. The only DP Chemistry resource that includes support directly from the IB, focused exam practice, TOK links and real-life applications drive achievement.

Theory and Applications Oxford University Press, USA

Carboranes Academic Press

Royal Society of Chemistry

Advances in Microwave Chemistry discusses the novel bond formation methodologies, synergistic effects of microwaves with other entities, sample preparation including digestion, combustion, and extraction techniques, as well as selectivity in chemical processes. Recent updates are provided on microwave-assisted syntheses of pharmacologically significant aza-, oxo- and other heterocycles, including lactams, nucleosides, bile acids and sterols, the preparation of nanomaterials, composites, and absorber layer materials for thin film. This book also incorporates comparative discussions involving microwave irradiation with conventional methods in different aspects of organic, inorganic, medicinal, and green chemistry. Key Features: Provides a comparative discussion on microwave irradiation with conventional methods in different aspects of organic, inorganic, medicinal, and green chemistry Presents recent applications of microwave radiation in biocatalysis Offers a complete package correlating various aspects of microwaves in organic syntheses, the biological impact of products formed in reactions, pharmacological features, and environmental sustainability of the procedures Explains microwave-induced reactions on structurally complex bile acids and sterols Stands as a valuable and unique addition to the well-established book series, *New Directions in Organic and Biological Chemistry*

Chemistry for the IB Diploma Springer

The series *Topics in Organometallic Chemistry* presents critical overviews of research results in organometallic chemistry. As our understanding of organometallic structure, properties and mechanisms increases, new ways are opened for the design of organometallic compounds and reactions tailored to the needs of such diverse areas as organic synthesis, medical research, biology and materials science. Thus the scope of coverage includes a broad range of topics in pure and applied organometallic chemistry, where new breakthroughs are being achieved that are of significance to a larger scientific audience. The individual volumes of *Topics in Organometallic Chemistry* are thematic. Review articles are generally invited by the volume editors.

Standard and Higher Level OUP Oxford

Electron paramagnetic resonance (EPR) applications remain highly significant in modern analytical science and this volume compiles critical coverage of developments in the recent literature. The topics covered in this volume describe contrasting types of EPR application, including rapid scan EPR, using the EPR toolkit to investigate the structural dynamics of membrane proteins and pulse dipolar EPR spectroscopy for investigating biomolecular binding events. An additional chapter reviewing the PARACAT collaboration from the EU has also been included. Providing a snapshot of the area by a handpicked group of researchers at the cutting-edge of the field, this book is a useful addition to any library supporting this research.

Genetic Diagnosis of Endocrine Disorders Royal Society of Chemistry

Uniting the key organic topics of total synthesis and efficient synthetic methodologies, this book clearly overviews synthetic strategies and tactics applied in total synthesis, demonstrating how the total synthesis of natural products enables scientific and drug discovery. • Focuses on efficiency, a fundamental and important issue in natural products synthesis that makes natural product synthesis a powerful tool in biological and pharmaceutical science • Describes new methods like organocatalysis, multicomponent and cascade reactions, and biomimetic synthesis • Appeals to graduate students with two sections at the end of each chapter illustrating key reactions, strategies, tactics, and concepts; and good but unfinished total synthesis (synthesis of core structure) before the last section • Compiles examples of solid phase synthesis and continuing flow chemistry-based total synthesis which are very relevant and attractive to industry R&D professionals

Structure and Function Academic Press

This concise guide provides the content needed for the Chemistry IB diploma at both Standard and Higher Level. It follows the structure of the IB Programme exactly and includes all the options. Each topic is presented on its own page for clarity, Higher Level material is clearly indicated, and there are plenty of practice questions. The text is written with an awareness that English might not be the reader's first language

Green Chemistry CRC Press

The methodologies and technologies adaptable to process chemistry are the focus of this unique book, as new catalysts, reactions, and methods for the synthesis of functional materials are dealt with in depth for the first time. Those materials take in pharmaceuticals, agrochemicals, functional materials, chemical raw materials, and other substances in the field of process chemistry including green chemistry. Process chemistry underpins the competitiveness of chemical and pharmaceutical industries, but its stagnation is estimated to cause industrial depression and excessive loss. For that reason, chemists focus on process chemistry consistently so that the development of novel and efficient new reactions and technologies provides an essential stimulus. In addition, this volume describes the important development of selected new synthetic devices for process development and the process design for a larger scale, thus furnishing a valuable source for all who are engaged in process chemistry.

Natural Materials and Products from Insects: Chemistry and Applications Royal Society of Chemistry

Genetic Diagnosis of Endocrine Disorders, Second Edition provides users with a comprehensive reference that is organized by endocrine grouping (i.e., thyroid, pancreas, parathyroid, pituitary, adrenal, and reproductive and bone), discussing the genetic and molecular basis for the diagnosis of various disorders.

The book emphasizes the practical nature of diagnosing a disease, including which tests should be done for the diagnosis of diabetes mellitus in adults and children, which genes should be evaluated for subjects with congenital hypothyroidism, which genetic tests should be ordered in obese patients or for those with parathyroid carcinoma, and the rationale behind testing for multiple endocrine neoplasias. Offers a clear presentations of pharmacogenetics and the actual assays used in detecting endocrine diseases Teaches the essentials of the genetic basis of disease in each major endocrine organ system Offers expert advice from genetic counselors on how to use genetic information in counseling patients Includes new chapters on the genetics of lipid disorders and glycogen storage diseases, genetics of hypoglycemia, and whole genome/exome sequencing

Efficiency in Natural Product Total Synthesis John Wiley & Sons

Polyphenols: Mechanisms of Action in Human Health and Disease, Second Edition describes the mechanisms of polyphenol antioxidant activities and their use in disease prevention. Chapters highlight the anti-inflammatory activity of polyphenols on key dendritic cells, how they modulate and suppress inflammation, and how they are inactivated or activated by metabolism in the gut and

circulating blood. Polyphenols have proven effective for key health benefits, including bone health, organ health, cardiac and vascular conditions, absorption and metabolism, and cancer and diseases of the immune system. They are a unique group of phytochemicals that are present in all fruits, vegetables and other plant products. This very diverse and multi-functional group of active plant compounds contain powerful antioxidant properties and exhibit remarkable chemical, biological and physiological properties, including cancer prevention and cardio-protective activities. Expands coverage on green tea, cocoa, wine, cumin and herbs Outlines their chemical properties, bioavailability and metabolomics Provides a self-teaching guide to learn the mechanisms of action and health benefits of polyphenols

Advances in Protein Chemistry and Structural Biology Royal Society of Chemistry

Organophosphorus Chemistry provides a comprehensive and critical review of the recent literature. Coverage includes phosphines and their chalcogenides, phosphonium salts, low coordination number phosphorus compounds, penta- and hexa- coordinated compounds, quiquevalent phosphorus acids, nucleotides and nucleic acids, ylides and related compounds, phosphazenes and the application of physical methods in the study of organophosphorus compounds. This is the 40th in a series of volumes which first appeared in 1970 under the editorship of Stuart Trippett and which covered the literature of organophosphorus chemistry published in the period from January 1968 to June 1969, citing some 1370 publications. The present volume covers the literature from the last eighteen months, citing more than 2200 publications, continuing our efforts to provide an up to date survey of progress in an area of chemistry that has expanded significantly over the past 40 years.

An Inclusive Approach Academic Press

Provides complete coverage of the syllabus requirements. This book offers information on Chemistry for IB Diploma course.

The Chemistry and Bioactive Components of Turmeric Elsevier

The Alkaloids, a series that has covered the topic for more than 60 years, is the leading book series in the field of alkaloid chemistry. In more than 70 volumes, all aspects of alkaloids—including their chemistry, biology, and pharmacology—are covered in high-quality, timeless reviews written by renowned experts in the field. Contains the latest information on the study of alkaloids Covers their chemistry, biology, pharmacology, and medical applications Presents more than 70 volumes in this interesting field of study

High Pressure Technologies in Biomass Conversion Academic Press

A pocket guide that provides quick solutions and tips to the Mac OS X power user.