



Functional Group Chemistry

by JAMES R. HANSON

Functional Group Chemistry Wiley Rsc

David G. Morris



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Functional Group Chemistry James R. Hanson, 2002-05-09 Functional Group Chemistry presents the chemistry of functional groups with an emphasis on patterns of reactivity the consequences of the relative electronegativity of the atoms that constitute functional groups the role of lone pairs and the stereochemistry of reactions at a particular group The material is presented in four chapters The first chapter describes some of the general principles that affect the reactivity of functional groups The second chapter examines the chemistry of functional groups involving sigma C X bonds as in alkyl halides alcohols ethers amines and organometallic reagents The third chapter covers the chemistry of both symmetrical and unsymmetrical pi bonded functional groups typified by alkenes and carbonyl groups The final chapter concentrates on aromatic compounds It is concerned with the interactions between an aromatic ring and functional groups that are attached to it such as their effect on the orientation of aromatic substitution Each chapter concludes with a series of problems The chemistry of the functional groups is considered here with a mechanistic rationale Students are encouraged to consider the reactivity of functional groups in terms of their regions of electron deficiency and excess and hence to identify the sites at which nucleophiles and electrophiles might react

Stereochemistry David G. Morris, 2002-05-09 Stereochemistry is defined as the study of the three dimensional structure of molecules Stereochemical considerations are important in both isomerism and studies of the mechanisms of chemical reactions Concentrating on organic chemistry early chapters deal mainly with definitions of terms such as chirality enantiomers diastereoisomers and racemisation complete with suitable examples to illustrate key concepts Use of a polarimeter and associated definitions are described together with two different conventions D L and R S for specification of configuration The distinction between conformation and configuration is developed to include assignment of configurations to di substituted cyclohexanes and to the decalins Aspects of stereochemistry are explored through consideration of addition reactions to alkenes and carbonyl groups nucleophilic substitution and reactions and interactions involved in the resolution of racemic mixtures

Heterocyclic Chemistry Malcolm Sainsbury, 2002-08-30 Heterocyclic Chemistry deals with the fundamental chemistry of fully saturated and unsaturated 4 5 and 6 membered heterocycles The principle focus is those compounds containing a single nitrogen oxygen or sulfur atom and by restricting discussion to these a balanced treatment is possible The book introduces a selection of important heterocyclic compounds and the vital role that they play in life medicine and industry Conformational aspects of heterocyclic chemistry aromatic stabilization nomenclature reaction mechanisms and methods of synthesis are also discussed

Hydrocarbon Chemistry George A. Olah, Arpad Molnar, G. K. Surya Prakash, 2017-09-08 This book provides an unparalleled contemporary assessment of hydrocarbon chemistry presenting basic concepts current research and future applications Comprehensive and updated review and discussion of the field of hydrocarbon chemistry Includes literature coverage since the publication of the previous edition Expands or adds coverage of carboxylation sustainable hydrocarbons

extraterrestrial hydrocarbons Addresses a topic of special relevance in contemporary science since hydrocarbons play a role as a possible replacement for coal petroleum oil and natural gas as well as their environmentally safe use Reviews of prior edition literature coverage is comprehensive and ideal for quickly reviewing specific topics of most value to industrial chemists *Angewandte Chemie* and useful for chemical engineers as well as engineers in the chemical and petrochemical industries *Petroleum Science and Technology* *Forthcoming Books* Rose Arny,2004 **Advanced Practical Inorganic and Metalorganic Chemistry** R. John Errington,2024-11-15 While the boundaries between the areas of chemistry traditionally labeled as inorganic organic and physical are gradually diffusing the practical techniques adopted by workers in each of these areas are often radically different The breadth and variety of research classed as inorganic chemistry is readily apparent from an inspection of some of the leading international journals and can be quite daunting for newcomers to this domain who are likely to have only limited experience of the methodologies involved This book has therefore been written to provide guidance for those unfamiliar with the techniques most often encountered in synthetic inorganic metalorganic chemistry with an emphasis on procedures for handling air sensitive compounds One chapter is devoted to more specialized techniques such as metal vapor synthesis and a review of preparative methods for a selection of starting materials is included as an aid to those planning research projects While this book is aimed primarily at postgraduate and advanced undergraduate students involved in inorganic research projects synthetic organic chemists and industrial chemists will also find much useful information within its pages Similarly it serves as a useful reference source for materials and polymer scientists who wish to take advantage of recent progress in precursor synthesis and catalyst development *Lewis Base Catalysis in Organic Synthesis* Edwin Vedejs,Scott E. Denmark,2016-08-03 This three volume set represents the first comprehensive coverage of the rapidly expanding field of Lewis base catalysis that has attracted enormous attention in recent years Lewis base catalysis is a conceptually novel paradigm that encompasses an extremely wide variety of preparatively useful transformations and is particularly effective for enantioselectively constructing new stereogenic centers As electron pair donors Lewis bases can influence the rate and stereochemical course of myriad synthetic organic reactions The book presents the conceptual mechanistic principles that underlie Lewis base catalysis and then builds upon that foundation with a thorough presentation of many different reaction types And last but not least the editors Prof Edwin Vedejs and Prof Scott E Denmark are without doubt the leaders in this emerging field and have compiled high quality contributions from an impressive collection of international experts *The Chemistry of Nitrogen-rich Functional Groups, Volume 2* Joel F. Liebman,Alexander Greer,Ilan Marek,Zvi Rappoport,2025-03-10 *The Chemistry of Nitrogen rich Functional Groups Volume 2* A series of advanced treatises founded by Professor Saul Patai and now under the general editorship of Professors Ilan Marek and Joel F Liebman *PATAI's Chemistry of Functional Groups* publishes comprehensive reviews on all aspects of specific functional groups Each volume contains outstanding surveys on theoretical and computational aspects NMR MS

other spectroscopic methods and analytical chemistry structural aspects thermochemistry photochemistry synthetic approaches and strategies synthetic uses and applications in chemical and pharmaceutical industries biological biochemical and environmental aspects To date over 150 volumes have been published in the series Recently Published Titles The Chemistry of Peroxides Volume 2 2 parts The Chemistry of Organozinc Compounds 2 parts The Chemistry of Anilines 2 parts The Chemistry of Organomagnesium Compounds 2 parts The Chemistry of Hydroxylamines Oximes and Hydroxamic Acids 2 volumes 4 parts The Chemistry of Metal Enolates 2 parts The Chemistry of Organocopper Compounds 2 parts The Chemistry of Organomanganese Compounds The Chemistry of Organic Selenium and Tellurium Compounds Volume 3 2 parts The Chemistry of Organic Selenium and Tellurium Compounds Volume 4 2 parts The Chemistry of Organoiron Compounds The Chemistry of Metal Phenolates The Chemistry of Peroxides Volume 3 2 parts The Chemistry of Organogold Compounds 2 parts The Chemistry of Organoaluminum Compounds The Chemistry of Metal Enolates Volume 2 The Chemistry of Metal Phenolates Volume 2 The Chemistry of Hypervalent Halogen Compounds 2 parts The Chemistry of Nitrogen rich Functional Groups The Chemistry of Organoboron Compounds 2 parts The Chemistry of Organocobalt Compounds The Chemistry of Organofluorine Compounds PATAI Online PATAI's Chemistry of Functional Groups is available in electronic format on Wiley Online Library

Basic Atomic and Molecular Spectroscopy J. Michael Hollas, 2002-08-30 The main aim of this unique book is to introduce the student to spectroscopy in a clear manner which avoids as far as possible the mathematical aspects of the subject It is thus intended for first or second year undergraduates particularly those with minimal mathematics qualifications After explaining the theory behind spectroscopy the book then goes on to look at the different techniques such as rotational vibrational and electronic spectroscopy It encompasses both high resolution structural and low resolution analytical spectroscopy demonstrating their close interrelationship The many worked problems make this book particularly appealing for independent study

The Organic Chemistry of Drug Design and Drug Action Richard B. Silverman, Mark W. Holladay, 2014-03-29 The Organic Chemistry of Drug Design and Drug Action Third Edition represents a unique approach to medicinal chemistry based on physical organic chemical principles and reaction mechanisms that rationalize drug action which allows reader to extrapolate those core principles and mechanisms to many related classes of drug molecules This new edition includes updates to all chapters including new examples and references It reflects significant changes in the process of drug design over the last decade and preserves the successful approach of the previous editions while including significant changes in format and coverage This text is designed for undergraduate and graduate students in chemistry studying medicinal chemistry or pharmaceutical chemistry research chemists and biochemists working in pharmaceutical and biotechnology industries Updates to all chapters including new examples and references Chapter 1 Introduction Completely rewritten and expanded as an overview of topics discussed in detail throughout the book Chapter 2 Lead Discovery and Lead Modification Sections on sources of compounds for screening including library collections virtual

screening and computational methods as well as hit to lead and scaffold hopping expanded sections on sources of lead compounds fragment based lead discovery and molecular graphics and deemphasized solid phase synthesis and combinatorial chemistry Chapter 3 Receptors Drug receptor interactions cation π and halogen bonding atropisomers case history of the insomnia drug suvorexant Chapter 4 Enzymes Expanded sections on enzyme catalysis in drug discovery and enzyme synthesis Chapter 5 Enzyme Inhibition and Inactivation New case histories for competitive inhibition the epidermal growth factor receptor tyrosine kinase inhibitor erlotinib and Abelson kinase inhibitor imatinib for transition state analogue inhibition the purine nucleoside phosphorylase inhibitors forodesine and DADMe ImmH as well as the mechanism of the multisubstrate analog inhibitor isoniazid for slow tight binding inhibition the dipeptidyl peptidase 4 inhibitor saxagliptin Chapter 7 Drug Resistance and Drug Synergism This new chapter includes topics taken from two chapters in the previous edition with many new examples Chapter 8 Drug Metabolism Discussions of toxicophores and reactive metabolites Chapter 9 Prodrugs and Drug Delivery Systems Discussion of antibody drug conjugates

Chemistry of the Morita-Baylis-Hillman Reaction Min Shi, 2011 Carbon carbon bond formations and functional group transformations are the most fundamental reactions for the construction of molecular frameworks and are at the forefront of organic chemistry research The Morita Baylis Hillman MBH type reactions possess the two most important requirements atom economy and generation of multi functional groups The last decade has seen exponential growth of the MBH reaction and its applications In fact it is already one of the most powerful carbon carbon bond forming methods widely used in organic synthesis Since the 1990s more and more research groups have initiated work on different aspects of the MBH reaction These have focused on the scope of the substrates novel catalysts especially chiral catalysts reaction mechanisms and synthetic applications Consequently there is now a need for a reference detailing the chemistry of this important reaction This unique book summarizes the MBH reaction aza MBH reaction and asymmetric MBH aza MBH reaction including the latest research and mechanistic investigations It provides a complete overview of MBH type reactions aimed at synthetic organic chemists of all levels within academia and industry The chapters cover the origin and growth of the Morita Baylis Hillman reaction reactant classes and reaction conditions catalytic mechanisms achiral and chiral catalytic systems transformations of functional groups use of Morita Baylis Hillman adducts and derivatives as starting materials to construct compounds with carbocyclic or heterocyclic frameworks and the applications of the MBH reaction in synthesizing natural products

Aromatic Chemistry John D. Hepworth, David R. Waring, Michael J. Waring, 2002 This product is not available separately it is only sold as part of a set There are 750 products in the set and these are all sold as one entity This book provides an up to date and comprehensive account of aromatic chemistry A series of chapters describes the synthesis and reactions of the major functional derivatives of benzene and the more common polycyclic systems The concept of aromaticity and the mechanism of aromatic substitution are discussed as is the use of metals in the synthesis of aromatic compounds Throughout emphasis is placed on mechanisms

Worked problems and questions are provided to aid understanding In addition to providing material required by an undergraduate studying chemistry Aromatic Chemistry is also ideal for industrial chemists seeking to update their knowledge of this important aspect of chemistry Ideal for the needs of undergraduate chemistry students Tutorial Chemistry Texts is a major new series consisting of short single topic or modular texts concentrating on the fundamental areas of chemistry taught in undergraduate science courses Each book provides a concise account of the basic principles underlying a given subject embodying an independent learning philosophy and including worked examples

Thermodynamics and Statistical Mechanics John M. Seddon, Julian D. Gale, 2002-08-30 This text aims to help students understand energy its different forms and transformations and the key role of entropy as applied to chemical systems addressing such questions as how much work is performed and how much heat transfer occurs during chemical processes and reactions

Atomic Structure and Periodicity Jack Barrett, 2002 Each text in this series provides a concise account of the basic principles underlying a given subject embodying an independent learning philosophy and including worked examples This text covers atomic structure and periodicity

Organic Synthetic Methods James Ralph Hanson, 2002 This book introduces the major methods of creating carbon carbon and carbon nitrogen bonds along with functional group interconversions

Organochalcogen Compounds Eder João Lenardão, Claudio Santi, Gelson Perin, Diego Alves, 2022-05-17 Organochalcogen compounds reviews the state of the art in new green protocols involving organochalcogen compounds Se S and Te including the use of nonconventional reaction media alternative solvents and solvent free protocols to prepare these important compounds Bringing together several leading researchers in organochalcogen chemistry it provides an authoritative overview of the current state of the field and compiles recent advances in methodologies for the application of green chemistry principles in compound development These include the use of organochalcogen compounds as intermediates catalysts or target products across a range of applications The recent developments outlined in the book reflect the efforts of the researchers in this area to move toward a more sustainable chemistry giving the book the dual benefit of highlighting the latest developments in the field while also showing how the principles of green chemistry can effectively be included in active research projects Thus it is a valuable reference for chemists particularly those working in organic green and synthetic chemistry across both academia and industry Highlights green synthetic methods with potential application in the synthesis of natural compounds or other biologically active scaffolds Explores the chemical modification of natural compounds by insertion of organochalcogen groups for the preparation of boosted bioactive semisynthetic molecules Discuss how redox catalysis and catalysis in flow conditions using eco friendly oxidant can provide new opportunities for the synthesis of linear and cyclic derivatives

Solid State Chemistry Elaine A. Moore, Lesley E. Smart, 2020-08-03 A comprehensive guide to solid state chemistry which is ideal for all undergraduate levels It covers well the fundamentals of the area from basic structures to methods of analysis but also introduces modern topics such as sustainability Dr Jennifer Readman University of Central Lancashire UK The latest edition

of Solid State Chemistry combines clear explanations with a broad range of topics to provide students with a firm grounding in the major theoretical and practical aspects of the chemistry of solids Professor Robert Palgrave University College London UK Building a foundation with a thorough description of crystalline structures this fifth edition of Solid State Chemistry An Introduction presents a wide range of the synthetic and physical techniques used to prepare and characterise solids Going beyond this this largely nonmathematical introduction to solid state chemistry includes the bonding and electronic magnetic electrical and optical properties of solids Solids of particular interest porous solids superconductors and nanostructures are included Practical examples of applications and modern developments are given It offers students the opportunity to apply their knowledge in real life situations and will serve them well throughout their degree course New in the Fifth Edition A companion website which offers accessible resources for students and instructors alike featuring topics and tools such as quizzes videos web links and more A new chapter on sustainability in solid state chemistry written by an expert in this field Cryo electron microscopy X ray photoelectron spectroscopy ESCA Covalent organic frameworks Graphene oxide and bilayer graphene Elaine A Moore studied chemistry as an undergraduate at Oxford University and then stayed on to complete a DPhil in theoretical chemistry with Peter Atkins After a two year postdoctoral position at the University of Southampton she joined the Open University in 1975 becoming a lecturer in chemistry in 1977 senior lecturer in 1998 and reader in 2004 She retired in 2017 and currently has an honorary position at the Open University She has produced OU teaching texts in chemistry for courses at levels 1 2 and 3 and written texts in astronomy at level 2 and physics at level 3 She was team leader for the production and presentation of an Open University level 2 chemistry module delivered entirely online She is a Fellow of the Royal Society of Chemistry and a Senior Fellow of the Higher Education Academy She was co chair for the successful Departmental submission of an Athena Swan bronze award Lesley E Smart studied chemistry at Southampton University United Kingdom After completing a PhD in Raman spectroscopy she moved to a lectureship at the then Royal University of Malta After returning to the United Kingdom she took an SRC Fellowship to Bristol University to work on X ray crystallography From 1977 to 2009 she worked at the Open University chemistry department as a lecturer senior lecturer and Molecular Science Programme director and she held an honorary senior lectureship there until her death in 2016 At the Open University she was involved in the production of undergraduate courses in inorganic and physical chemistry and health sciences She served on the Council of the Royal Society of Chemistry and as the chair of their Benevolent Fund

Handbook of Specialty Fluorinated Polymers Susanta Banerjee, 2015-04-24 Fluoropolymers are used in applications demanding service at enhanced temperature while maintaining their structural integrity and have excellent combination of chemical physical and mechanical properties Advancements in materials and processing technology mean that a huge amount of research is currently taking place into new high performance applications for specialty fluorinated polymers This book is a complete review of the current research in synthesizing new fluorinated high performance polymers and their

application in the field of low dielectric constant materials membrane based separation gas and liquid and proton exchange membranes Special emphasis is given to the preparation of soluble high performance polymers by incorporating fluorine and different structural elements so as to use these classes of polymers in different membrane based applications including low dielectric constant materials gas separation pervaporation proton exchange membranes in fuel cells and more The coverage of processing properties and commercial aspects as well as a practical assessment of the advantages and disadvantages of specialty fluoropolymers compared to other materials enables engineers and product designers to apply the latest scientific developments in this area in a practical setting Thorough coverage of modern applications for specialty fluorinated polymers including membranes and coatings giving insight into recent research and the future direction of this technology Brings researchers and engineers up to date with the latest developments in specialty fluoropolymers to assist in future materials research and part design Includes detailed assessment of the advantages and shortcomings of specialty fluorinated polymers for ease of comparison with alternative materials

Functional Materials Processing for Switchable Device

Modulation Kaushik Pal,Sabu Thomas,2021-10-19 Functional Materials Processing for Switchable Device Modulation focuses on the advances of nanofabrication that underpin emerging technologies including electronic devices The book provides readers with a broad view of the materials perspectives including historical context and background along with future opportunities for smart electronic and switchable devices A major focus in the book is on the research and development of synthetic materials for spectroscopic analysis which broadly deals with science and technology of materials on the atomic and molecular scale The book reviews the materials and advances in research for switchable electronics for bioelectronic sensing and optoelectronic applications In addition key challenges and emerging opportunities in innovations in surface modification and novel functional materials device implementation for industrial scale reproducibility are discussed The book covers the applications and market potential for a variety of media including mirrors glazing coatings and display products The physics electrochemistry device design and materials are detailed with performance compared between the most relevant and emerging switchable technologies Addresses the most interesting advances in switchable devices for bioelectronics electronics optoelectronics and sensing applications Includes a special emphasis on materials design processing and fabrication of switchable devices to realize large scale industry applications Compares the performance of existing innovative switchable devices Reviews the remaining barriers to commercialization along with opportunities to address these challenges

Copper Catalysis in Organic Synthesis Gopinathan Anilkumar,Salim Saranya,2020-12-07

The most current information on growing field of copper catalysis Copper Catalysis in Organic Synthesis contains an up to date overview of the most important reactions in the presence of copper catalysts The contributors noted experts on the topic provide an introduction to the field of copper catalysis reviewing its development scope and limitations as well as providing descriptions of various homo and cross coupling reactions In addition information is presented on copper catalyzed C H

activation amination carbonylation trifluoromethylation cyanation and click reactions Comprehensive in scope the book also describes microwave assisted and multi component transformations as well as copper catalyzed reactions in green solvents and continuous flow reactors The authors highlight the application of copper catalysis in asymmetric synthesis and total synthesis of natural products and heterocycles as well as nanocatalysis This important book Examines copper and its use in organic synthesis as a more cost effective and sustainable for researchers in academia and industry Offers the first up to date book to explore copper as a first line catalyst for many organic reactions Presents the most significant developments in the area including cross coupling reactions C H activation asymmetric synthesis and total synthesis of natural products and heterocycles Contains over 20 contributions from leaders in the field Written for catalytic chemists organic chemists natural products chemists pharmaceutical chemists and chemists in industry Copper Catalysis in Organic Synthesis offers a book on the growing field of copper catalysis covering cross coupling reactions C H activation and applications in the total synthesis of natural products

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