

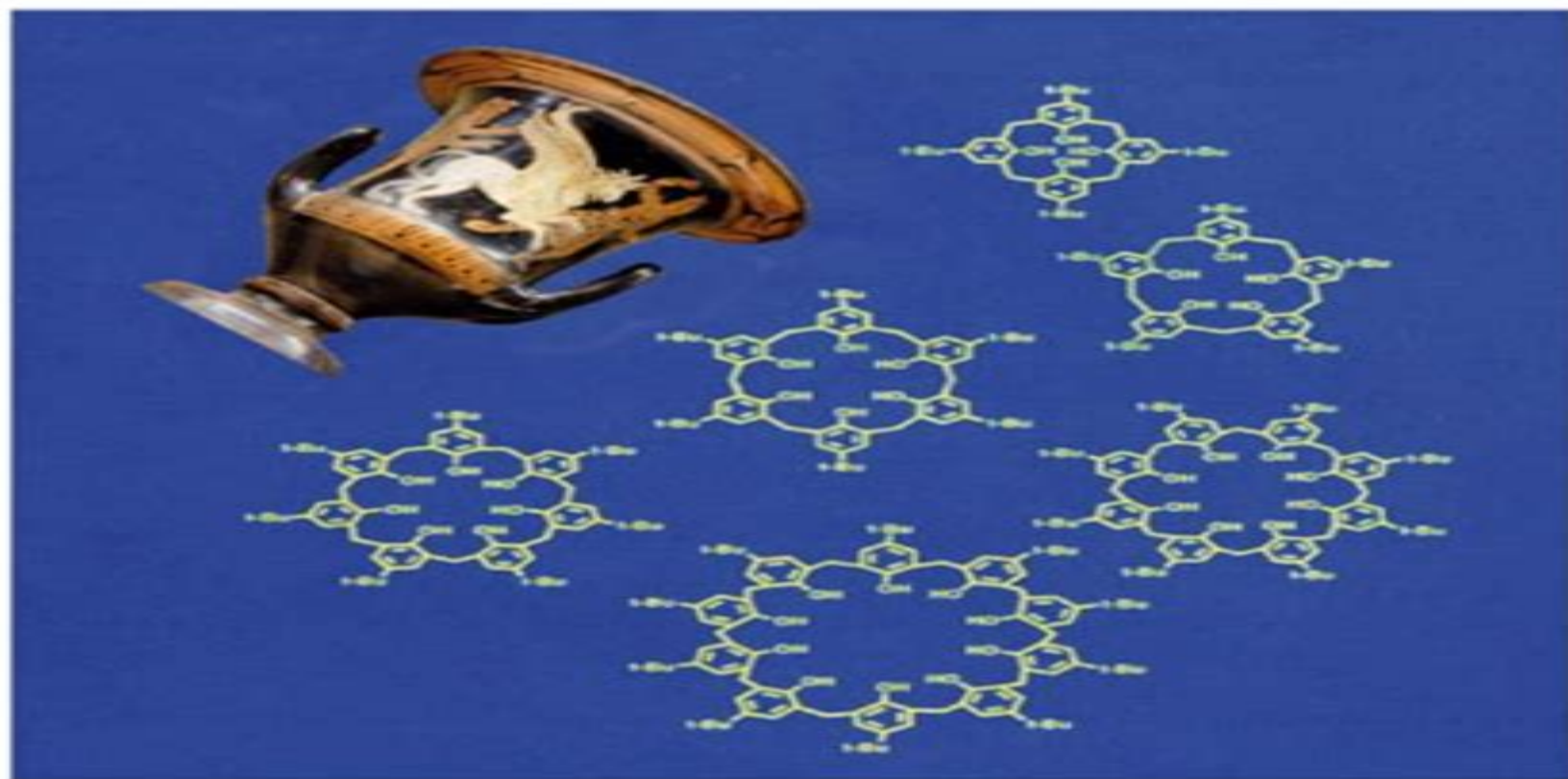
2nd Edition

Monographs in Supramolecular Chemistry

C David Gutsche

Calixarenes

An Introduction



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Calixarenes C David Gutsche, 2008-01-22 Calixarenes was the first book to be published in the Monographs in Supramolecular Chemistry series and is also the first complete survey available of this rapidly developing field. It provides a fascinating and lively account of the history, development and applications of calixarenes which are probably the world's most readily available synthetic molecular baskets. These basket-shaped compounds possess the ability to hold metal ions as well as molecules in their interior and as a result of their extraordinarily easy synthesis from phenols and aldehydes are receiving increasingly wide attention. This book is a must for advanced undergraduates and postgraduates studying bioorganic and supramolecular chemistry.

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Introduction to Supramolecular Chemistry Helena Dodziuk, 2007-05-08 A new rapidly progressing field on the crossroads among chemistry, biochemistry, physics and technology, supramolecular chemistry has just emerged. You have to be involved to know what's going on in this domain and to take part in the development. This book will show you in a condensed form exciting phenomena unthinkable within the realm of classical organic chemistry, for example alkali metal anions or cyclobutadiene stable for months at room temperature that not only provide the basis for revolutionizing numerous branches of industry but also improve our understanding of the functioning of living organisms and of the origin of life. Designing supramolecular systems with desired properties will, among others, make chemical industry cleaner and more safe, electronics smaller by developing devices composed of single molecule or molecular aggregate. It will also entirely change the way we use energy resources. In addition, it will also transform the pharmaceutical industry and medicine by developing new ways of drug administration and new composite biocompatible materials which will serve as implants of new generation, changing dentistry, surgery and other branches of medicine. You cannot afford to stand apart. With its brief but comprehensive and vivid presentation, including the latest developments, *Introduction to Supramolecular Chemistry* is the best method to get into this domain. This book provides an excellent summary of information scattered across the literature. The brief but comprehensive coverage of the whole field, including practically all important groups of compounds forming aggregates in particular crown ethers, cavitands, fullerenes, cyclodextrins and their complexes, providing full references for the discussed subjects, make this book of value not only for Ph.D. students and non-specialists in this domain but also for those working in the field. The book has been found to be a particularly useful resource for students and more generally for those wanting to get the up-to-date concise account of this exciting field.

Comprehensive Supramolecular Chemistry II

George W. Gokel, Len Barbour, 2017-06-22 Comprehensive Supramolecular Chemistry II Second Edition Nine Volume Set is a one stop shop that covers supramolecular chemistry a field that originated from the work of researchers in organic inorganic and physical chemistry with some biological influence The original edition was structured to reflect in part the origin of the field However in the past two decades the field has changed a great deal as reflected in this new work that covers the general principles of supramolecular chemistry and molecular recognition experimental and computational methods in supramolecular chemistry supramolecular receptors dynamic supramolecular chemistry supramolecular engineering crystallographic engineered assemblies sensors imaging agents devices and the latest in nanotechnology Each section begins with an introduction by an expert in the field who offers an initial perspective on the development of the field Each article begins with outlining basic concepts before moving on to more advanced material Contains content that begins with the basics before moving on to more complex concepts making it suitable for advanced undergraduates as well as academic researchers Focuses on application of the theory in practice with particular focus on areas that have gained increasing importance in the 21st century including nanomedicine nanotechnology and medicinal chemistry Fully rewritten to make a completely up to date reference work that covers all the major advances that have taken place since the First Edition published in 1996

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Calixarenes Revisited C David Gutsche, 2007-10-31 Calixarenes was the first book to be published in the Monographs in Supramolecular Chemistry series and is also the first complete survey available of this rapidly developing field It provides a fascinating and lively account of the history development and applications of calixarenes which are probably the world's most readily available synthetic molecular baskets These basket shaped compounds possess the ability to hold metal ions as well as molecules in their interior and as a result of their extraordinarily easy synthesis from phenols and aldehydes are receiving increasingly wide attention This book is a must for advanced undergraduates and post graduates studying bio organic and supramolecular chemistry

Calixarenes and Resorcinarenes Wanda Sliwa, Cezary Kozlowski, 2009-03-23 Drawing on reports published since 2005 this book is the only one to cover the latest advances concerning the properties of calixarenes of various structures while highlighting their future applications in science and new technologies Clearly divided into three main topic areas this monograph deals with the synthesis of new calixarenes and their functionalization properties and applications of such related compounds as

resorcinarenes cavitands and capsules as well as practical applications of the species considered **Macrocycles** Frank Davis, Séamus Higson, 2011-02-23 Macrocyclic molecules contain rings made up of seven or more atoms They are interesting because they provide building blocks for synthesizing precise two or three dimensional structures an important goal in nanotechnology For example they can be used to develop nanosized reaction vessels cages switches and shuttles and have potential as components in molecular computers They also have applications as catalysts and sensors **Macrocycles Construction Chemistry and Nanotechnology Applications** is an essential introduction this important class of molecules and describes how to synthesise them their chemistry how they can be used as nanotechnology building blocks and their applications A wide range of structures synthesised over the past few decades are covered from the simpler cyclophanes and multi ring aromatic structures to vases bowls cages and more complex multi ring systems and 3D architectures such as pumpkins interlocking chains and knots Topics covered include principles of macrocycle synthesis simple ring compounds multi ring aromatic structures porphyrins and phthalocanines cyclophanes crown ethers cryptands and spherands calixarenes resorcinarenes cavitands carcerands and heterocalixarenes cyclodextrins cucurbiturils cyclotrimeratylenes rotaxanes catenanes complex 3D architectures including trefoils and knots **Macrocycles Construction Chemistry and Nanotechnology Applications** distills the essence of this important topic for undergraduate and postgraduate students and for researchers in other fields interested in getting a general insight into this increasingly important class of molecules

Supramolecular Chemistry in Biomedical Imaging Stephen Faulkner, Thorfinnur Gunnlaugsson, Gearoid O Maille, 2022-04-01 There have been many great advances in the field of biomedical imaging in recent years with supramolecular chemistry playing a key role in the evolution of modern imaging techniques Non covalent supramolecular interactions are fundamental to countless biological processes from host guest binding to the stabilisation of complex structures Supramolecular chemistry techniques can be employed to create probes that can be targeted to either exploit or disrupt these interactions giving the potential for both diagnostic and therapeutic effects Furthermore in techniques such as contrast enhanced MRI controlling the interactions between solvent molecules and the imaging agent is crucial to the development of the technique With rapid growth in the synthesis and study of molecular imaging agents the understanding of their associated techniques has sometimes lagged behind **Supramolecular Chemistry in Biomedical Imaging** will fill this gap by clarifying the state of current understanding and the nature of the underlying problems inherent to addressing problems in biology It will cover both the techniques used in imaging and the molecular and supramolecular systems used to exploit them This publication targets academics coming to the field from mainstream supramolecular chemistry research graduates and undergraduates interested in supramolecular chemistry synthesis or imaging agents and imaging techniques for biomedical applications **Calixarenes** C. David Gutsche, 2008 **Supramolecular Chemistry at Surfaces** David B. Amabilino, 2016-04-26 A complete overview of the different methods of preparing and studying self assembled structures at

surfaces and interfaces Organic Structures Design Tahsin J. Chow, 2014-12-01 The development of molecular electronics has become the mainstream of scientific research in recent decades Applications include light emitting diodes solar cells thin film transistors and sensors among others New generation organic materials possess the virtues of softness light weight easy processing design flexibility and so on This book **Molecular Gels** Richard G Weiss, 2018-08-06 Over the past decade research on molecular gels has expanded and progressed rapidly This timely book presents the latest developments and understanding of the topic covering the different classes of gels ionogels metallogels hydrogels and organogels from their molecular level interactions and formation to their properties as materials and applications The book starts with a general introduction to molecular gels including their definition and a comparison of the different types Chapters then examine the physical chemistry of molecular gels including the most recent theories experimental techniques and computational approaches Final chapters on the applications of molecular gels illustrate with modern case studies the principles developed in previous chapters Written by leading researchers this is an indispensable resource on the different types of gels for postgraduate students and researchers across supramolecular chemistry materials science polymer chemistry soft matter and chemical engineering Naphthalenediimide and its Congeners G Dan Pantos, 2017-03-20 The past decade has seen significant advances in naphthalenediimide and rylene diimide chemistry This book discusses the recent advances in this field and highlights potential and real applications for the molecules Such applications include organic photovoltaics anion slides DNA binders and building blocks for complex molecular topologies Naphthalenediimide and its Congeners is the first book in this rapidly developing area and will be essential reference material for postdoctoral researchers and postgraduate students This text will also provide a solid foundation for further development of naphthalenediimide chemistry Written by leaders in the field the book includes chapters on the supramolecular chemistry of naphthalenediimide DNA intercalators ion transport through membranes naphthalenediimide based photovoltaics and rylene dyes amongst others Naphthalenediimide and its Congeners is a detailed and in depth resource relevant not only to supramolecular and materials chemists but also to the larger chemistry and materials science fields **Molecular Logic-based Computation** A Prasanna de Silva, 2016-01-13 We all learn in schools factories bars and streets We gather store process and transmit information in society Molecular systems involved in our senses and within our brains allow all this to happen and molecular systems allow living things of all kinds to handle information for the purpose of survival and growth Nevertheless the vital link between molecules and computation was not generally appreciated until a few decades ago Semiconductor based information technology had penetrated society at many levels and the interest in maintaining momentum of this revolution led to the consideration of molecules among others as possible information handlers Such an overlap between the recent engineering oriented revolution with the ancient biology oriented success story is very interesting and George Boole's times in Ireland 150 years ago produced the logic ideas that provide the foundations of computation to this day Molecular logic and computation is a field which is 17 years young

has had a healthy growth and is a story which deserves to be told It is a growing branch of chemical science which highlights the connection between information technology engineering and biological and chemistry The author and co workers of this publication launched molecular logic as an experimental field by publishing the first research in the primary literature in 1993 and are uniquely placed to recount how the field has grown There is no other book at present on molecular logic and computation and is more comprehensive than that found in any review available so far It shows how designed molecules can play the role of information processors in a wide variety of situations once we are educated by those information processors already available in the semiconductor electronics business and in the natural world Following a short history of the field is a set of primers on logic computing and photochemical principles which are an essential basis in this field The book covers all of the Boolean logic gates driven by a single input and all of those with double inputs and the wide range of designs which lie beneath these gates is a particular highlight The easily available diversity of chemical systems is another highlight especially when it leads to reconfigurable logic gates Further on in the book molecular arithmetic and other more complex logic operations including those with a memory and those which stray beyond binary are covered Then follows molecular computing approaches which lie outside the Boolean blueprint including quantum phenomena and finally the book catalogues the useful real life applications of molecular logic and computation which are already available This book is an authoritative state of the art reference and a one stop shop concerning the current state of the field for scientists academics and postgraduate students

Boron Meng Li, John S Fossey, Tony D James, 2015-11-03 The ability to monitor analytes within physiological environmental and industrial scenarios is of prime importance in many scenarios Chemists have striven to mimic nature's ability to produce robust chemosensors with the capacity to detect molecules and signal their presence The covalent coupling interaction between boronic acids and saccharides has been exploited to monitor saccharides The boronic acid and Lewis acid base interaction is also suitable for the capture and recognition of anions which are involved in fundamental processes in all living things There have been significant advances in the field of boronic acid based receptors and this book provides a comprehensive overview and update on the topic Not only are the applications of boron in chemical molecular sensors covered in detail but their synthesis and supramolecular self assembly are also presented Topics include the molecular recognition of saccharides the complexation of boronic acids with saccharides fluorescent sensors and the modular construct of fluorescent sensors further sensory systems for saccharide recognition and an extensive bibliography Edited by experts in the area and containing international contributions from leading research groups on the subject this book provides a useful resource for graduate students academic and industrial researchers in organic chemistry supramolecular chemistry materials science and bio organic chemistry

Organic Chemist's Desk Reference Caroline Cooper, 2010-07-23 CHOICE Award Winner Since the first publication in 1995 the Organic Chemist's Desk Reference has been essential reading for laboratory chemists who need a concise guide to the essentials of organic chemistry the literature

nomenclature stereochemistry spectroscopy hazard information and laboratory data The past fifteen years have witnessed immense growth in the field of chemistry and new discoveries have continued to shape its progress In addition the distinction between organic chemistry and other disciplines such as biochemistry and materials science has become increasingly blurred Extensively revised and updated this new edition contains the very latest data that chemists need access to for experimentation and research New in the Second Edition Rearranged content placed in a logical progressive order making subjects easier to find Expanded topics from the glossary now presented as separate chapters Updated information on many classic subjects such as mass spectrometry and infrared ultraviolet and nuclear magnetic resonance spectroscopy New sections on chiral separations and crystallography Cross references to a plethora of web information Reflecting a 75% revision since the last edition this volume is a must have for organic chemists and those in related fields who need quick and easy access to vital information in the lab It is also a valuable companion to the Dictionary of Organic Compounds enabling readers to easily focus in on critical data

Porous Polymers Shilun Qiu,Teng Ben,2015-11-03 Porous materials with ultrahigh surface area are of great interest for potential applications in energy storage and environmental remediation Porous Polymers describes the significant recent progress in the development of different porous frameworks with a particular focus on the relationship between structure design synthesis method and properties The book starts with an introduction to porous materials and their functions followed by chapters looking at the design of porous polymers synthesis methods of porous polymers reversible methods irreversible methods copolymerization methods and self polymerization methods characterisation of porous polymer structures and post synthesis techniques of porous polymers lithiation sulphonation carbonization grafting Specific chapters then detail different porous materials systems such as conjugated microporous polymers CMPs covalent organic frameworks COFs hyper crosslinked polymers HCPs polymers of intrinsic microporosity PIMs and porous aromatic frameworks PAFs Written by active researchers in the field the book provides a comprehensive overview of different porous polymer systems for researchers and graduate students in chemistry and materials science working on novel materials and those interested in the energy and environmental applications

Pillararenes Tomoki Ogoshi,2015-10-28 First reported in 2008 Pillararenes are a new class of macrocyclic hosts consisting of hydroquinone units linked at the para position With a composition similar to cucurbiturils and calixarenes they combine the advantages and aspects of traditional hosts and have applications in sensing material synthesis and biomedicine Pillararenes starts with the historical background of macrocyclic compounds and then following chapters cover the synthesis of pillararenes their structures conformations and planar chirality Dedicated chapters then cover their host guest properties and supramolecular assemblies based on pillararenes including supramolecular polymers and mechanically interlocked molecules Edited by the leader in the field this is the first book to cover pillararenes and will appeal to graduate students researchers and academics in supramolecular chemistry organic chemistry polymer chemistry and materials science

interested in the chemistry and applications of pillararenes *Polyrotaxane and Slide-Ring Materials* Kohzo Ito, Kazuaki Kato, Koichi Mayumi, 2016 The first book to cover the fundamentals and applications of polyrotaxane and slide ring materials authored by their inventor

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