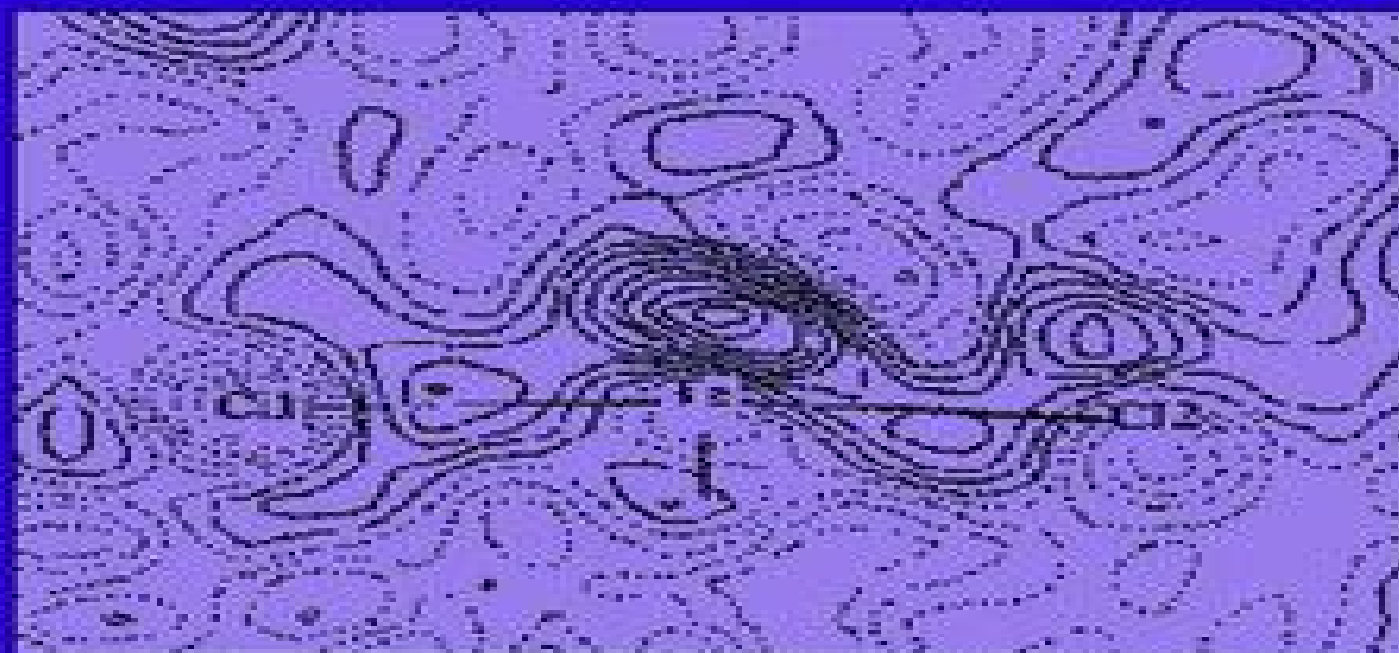


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# Main Group Chemistry

## Second Edition



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**Risto Laitinen, Raija Oilunkaniemi**



## **Main Group Chemistry Wiley Rsc:**

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

Early Main Group Metal Catalysis Sjoerd Harder, 2020-04-06 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 field of catalysis

Main Group Strategies towards Functional Hybrid Materials Thomas Baumgartner, Frieder Jäkle, 2018-03-12 Showcases the highly beneficial features arising from the presence of main group elements in organic materials for the development of more sophisticated yet simple advanced functional materials Functional organic materials are already a huge area of academic and industrial interest for a host of electronic applications such as Organic Light Emitting Diodes OLEDs Organic Photovoltaics OPVs Organic Field Effect Transistors OFETs and more recently Organic Batteries They are also relevant to a plethora of functional sensory applications This book provides an in depth overview of the expanding field of functional hybrid materials highlighting the incredibly positive aspects of main group centers and strategies that are furthering the creation of better functional materials Main Group Strategies towards Functional Hybrid Materials features contributions from top specialists in the field discussing the molecular supramolecular and polymeric materials and applications of boron silicon phosphorus

sulfur and their higher homologues Hypervalent materials based on the heavier main group elements are also covered The structure of the book allows the reader to compare differences and similarities between related strategies for several groups of elements and to draw crosslinks between different sections The incorporation of main group elements into functional organic materials has emerged as an efficient strategy for tuning materials properties for a wide range of practical applications Covers molecular supramolecular and polymeric materials featuring boron silicon phosphorus sulfur and their higher homologues Edited by internationally leading researchers in the field with contributions from top specialists Main Group Strategies towards Functional Hybrid Materials is an essential reference for organo main group chemists pursuing new advanced functional materials and for researchers and graduate students working in the fields of organic materials hybrid materials main group chemistry and polymer chemistry

**Descriptive Inorganic Chemistry** James E. House, Kathleen A. House, 2010-09-22 Descriptive Inorganic Chemistry Second Edition covers the synthesis reactions and properties of elements and inorganic compounds for courses in descriptive inorganic chemistry This updated version includes expanded coverage of chemical bonding and enhanced treatment of Buckminster Fullerenes and incorporates new industrial applications matched to key topics in the text It is suitable for the one semester ACS recommended course or as a supplement in general chemistry courses Ideal for majors and non majors the book incorporates rich graphs and diagrams to enhance the content and maximize learning Includes expanded coverage of chemical bonding and enhanced treatment of Buckminster Fullerenes Incorporates new industrial applications matched to key topics in the text

Organophosphorus Chemistry Lee J Higham, David W Allen, John C Tebb, 2021-07-20 This annual review of the literature the 50th volume in the present series provides a comprehensive and critical survey of a vast field of study involving organophosphorus compounds ranging from phosphines their chalcogenide derivatives and phosphonium salts phosphorus III acid derivatives phosphorus V acids penta and hexa coordinated phosphorus compounds phosphazenes and related phosphorus nitrogen bonded compounds Coverage is also presented of applications of organophosphorus compounds in homogeneous catalysis for synthesis of bulk and fine chemicals and also in applications as reagents in green synthetic procedures

**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

**Organometallic Chemistry** E W Abel, F G A Stone, 2007-10-31 Organometallic chemistry is an interdisciplinary science which continues to grow at a rapid pace Although there is continued interest in synthetic and structural studies the last decade has seen a growing interest in the potential of organometallic chemistry to provide answers to problems in catalysis synthetic organic chemistry and also in the development of new materials This Specialist Periodical Report aims to reflect these current interests reviewing progress in theoretical organometallic chemistry main group chemistry the lanthanides and all aspects of transition metal chemistry Specialist Periodical Reports provide systematic and detailed review coverage of progress in the major areas of chemical research Written by experts in their specialist fields the series creates a unique service for the active research chemist supplying regular critical in depth accounts of progress in particular areas of chemistry For over 80 years the Royal Society of Chemistry and its predecessor the Chemical Society have been publishing reports charting developments in chemistry which originally took the form of Annual Reports However by 1967 the whole spectrum of chemistry could no longer be contained within one volume and the series Specialist Periodical Reports was born The Annual Reports themselves still existed but were divided into two and subsequently three volumes covering Inorganic Organic and Physical Chemistry For more general coverage of the highlights in chemistry they remain a must Since that time the SPR series has altered according to the fluctuating degree of activity in various fields of chemistry Some titles have remained unchanged while others have altered their emphasis along with their titles some have been combined under a new name whereas others have had to be discontinued The current list of Specialist Periodical Reports can be seen on the inside flap of this volume

**Inorganic Chemistry of the Main-Group Elements** C C Addison, 2007-10-31 Specialist Periodical Reports provide systematic and detailed review coverage of progress in the major areas of chemical research Written by experts in their specialist fields the series creates a unique service for the active research chemist supplying regular critical in depth accounts of progress in particular areas of chemistry For over 80 years the Royal Society of Chemistry and its predecessor the Chemical Society have been publishing reports charting developments in chemistry which originally took the form of Annual Reports However by 1967 the whole spectrum of chemistry could no longer be contained within one volume and the series Specialist Periodical Reports was born The Annual Reports themselves still existed but were divided into two and subsequently three volumes covering Inorganic Organic and Physical Chemistry For more general coverage of the highlights in chemistry they remain a must Since that time the SPR series has altered

according to the fluctuating degree of activity in various fields of chemistry Some titles have remained unchanged while others have altered their emphasis along with their titles some have been combined under a new name whereas others have had to be discontinued The current list of Specialist Periodical Reports can be seen on the inside flap of this volume

**Advances in Organometallic Chemistry** Pedro J. Perez, 2018-10-25 Advances in Organometallic Chemistry Volume 70 contains authoritative review articles of worldwide known researchers in the field of organometallic chemistry This longstanding serial is known for its comprehensive coverage of topics in organometallic synthesis reactions mechanisms homogeneous catalysis and more It is ideal for a wide range of researchers involved in organometallic chemistry including synthetic protocols mechanistic studies and practical applications Topics of note in this new release include Carbon Dioxide Electroreduction Catalyzed by Organometallic Complexes Single electron Elementary Steps in Homogeneous Organometallic Catalysis Recent advances in catalytic hydrosilylation of carbonyl groups mediated by well defined first row late transition metals and more Contains contributions from leading authorities in the field of organometallic chemistry Covers topics in organometallic synthesis reactions mechanisms homogeneous catalysis and more Informs and updates readers on the latest developments in the field Carefully edited to provide easy to read material 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 Forthcoming Books Rose Arny, 2002 *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 **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

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**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

**Handbook on the Physics and Chemistry of Rare Earths**, 2019-08-10 Handbook on the Physics and Chemistry of Rare Earths Including Actinides Volume 55 the latest release in a continuous series of books covering all aspects of rare earth science including chemistry life sciences materials science and physics presents comprehensive broad up to date critical reviews written by highly experienced invited experts The series which was started in 1978 by Professor Karl A Gschneidner Jr combines and integrates both the fundamentals and applications of these elements with this release including chapters on Low Coordinate f element Complexes and Organometallic Lanthanide SMMs Presents up to date overviews and new developments in the field of rare earths covering both their physics and chemistry Contains individual chapters that are comprehensive and broad along with critical reviews Provides contributions from highly experienced invited experts

**Main Group Chemistry** W. Henderson, 2000 Main Group Chemistry covers the chemistry of the s and p block elements together with a brief chapter on the chemistry of zinc cadmium and mercury often classified as main group elements rather than as transition elements The Periodic Table is an important predictive tool in main group chemistry and in this book forms the basis for describing the trends and variations in the chemistry of the elements Introductory material covers the basic principles behind the Periodic Table bonding electronegativity and VSEPR Valence Shell Electron Pair Repulsion theory The chemistry of various groups of elements is then discussed The book incorporates a valuable chapter on inorganic polymers discussing the chemistry of materials such as silicates silicones phosphazenes and diamond Additional material is available on the website at [www.rsc.org/tct](http://www.rsc.org/tct) Ideal for the needs of undergraduate chemistry students

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**Peptides and Proteins** Shawn Doonan, 2002 Encompassing all aspects of the structures of peptides and proteins this book adopts a problem oriented approach to the topic Starting with a look at the structures and properties of proteins and amino acids it covers the methods of analysis of protein characteristics and computing applications

**Selenium and Tellurium Reagents** Risto Laitinen, Raija Oilunkaniemi, 2019-04-01 Selenium and Tellurium Reagents provides an in depth overview of recent advances on the chemistry of these elements Written by internationally recognized experts it gives insight into the synthesis structure analysis and mechanistic studies of these

compounds The book is organized into four parts which reflect the applications of Se and Te reagents in four areas inorganic chemistry organic chemistry materials science and biochemistry     *Ionic Liquids Completely UnCOILed* Natalia V.

Plechkova, Kenneth R. Seddon, 2015-12-10 Critical overviews from the front line of ionic liquids research *Ionic Liquids Completely UnCOILed* Critical Expert Overviews concludes the discussion of new processes and developments in ionic liquid technology introduced in the previously published volumes *Ionic Liquids UnCOILed* and *Ionic Liquids Further UnCOILed* The goal of this volume is to provide expert overviews that range from applied to theoretical synthetic to structural and analytical to toxicological The value of book lies in the authors expertise and their willingness to share it with the reader Written by an international group of chemists the book presents eleven overviews of specific areas of ionic liquid chemistry including What is an Ionic Liquid Molecular modelling Crystallography Chemical engineering of ionic liquid processes Toxicology and Biodegradation Organic reaction mechanisms Edited by Professor Ken Seddon and Dr Natalia Plechkova world leaders in the field of ionic liquids this book is a must read for R D chemists educators and students and for commercial developers of environmentally sustainable processes It offers insight and appreciation for the direction in which the field is going while also highlighting the best published works available making it equally valuable to new and experienced chemists alike



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