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Thomas M. Gøgsig

# New Discoveries on the $\beta$ -Hydride Elimination



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# New Discoveries On The Hydride Elimination Springer Theses

**C.E. Orfanos, W. Montagna, G. Stüttgen**

## **New Discoveries On The Hydride Elimination Springer Theses:**

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*New Discoveries on the  $\alpha$ -Hydride Elimination* Thomas Meyer G Gsig, 2016-05-01 This book details newly discovered metal catalyzed transformations ranging from Kumada Heck and Suzuki type reactions It describes the development of a number of significant transition metal catalyzed reactions for the synthesis of organic compounds

**New Discoveries on the  $\beta$ -Hydride Elimination** Thomas M. Gøgsig, 2012-09-06 The work presented in Thomas M G gsig s thesis deals with the discovery of new metal catalyzed transformations ranging from Kumada Heck and Suzuki type reactions The thesis starts with a formidable introduction to Pd catalyzed cross coupling reactions New results have been obtained on i Pd catalyzed 1 2 migration reactions ii Pd catalyzed Heck reactions employing heteroaromatic tosylates iii Ni catalyzed Heck reactions and iv Pd catalyzed carbonylative Heck reaction Metal catalyzed cross coupling reactions are today a highly competitive field the 2010 Nobel Prize in Chemistry was awarded for palladium catalyzed cross couplings in organic synthesis the 2001 and 2005 Nobel Prizes in closely related fields Thomas M G gsig obtained new results in his thesis that will help to improve the outcome of catalytic processes and improve their scope The results will thus

become key references for tomorrow's new applications. All chapters include insightful discussions and in depth descriptions of the key principles of these new discoveries. Advances in Cryogenic Engineering K. D. Timmerhaus, 2013-03-08. The National Bureau of Standards Boulder Laboratories at Boulder Colorado once again served as the host for the 1972 Cryogenic Engineering Conference. For the Cryogenic Engineering Conference it was like coming home for it was at the NBS Boulder Laboratories that the Cryogenic Engineering Conference was first conceived and held in 1954 in connection with the dedication of the NBS Boulder Laboratories by President Dwight D. Eisenhower. The Cryogenic Engineering Conference is grateful for the continuing support that the National Bureau of Standards has given over the years and which was expanded on July 1, 1971 when the NBS Boulder Laboratories assumed the secretariat function of the Conference from the National Academy of Sciences. Because of common interests in heat transfer the 1972 Cryogenic Engineering Conference worked with the 13th National Heat Transfer Conference to develop a joint program in heat transfer. A majority of the papers presented in this cooperative effort are included in Volume 18 of the Advances in Cryogenic Engineering through the kind permission of the 13th National Heat Transfer Conference and are acknowledged accordingly. Hair Research C.E. Orfanos, W. Montagna, G. Stüttgen, 2012-12-06. Several years ago a friendly looking young man walked into my office at the University Department of Dermatology in Cologne introduced himself as a diplomat, chemist, executive member of a family owned rather small German company manufacturing hair care products and proposed to me straight forward to organize an international meeting on hair research. In view of the large number of new developments in the field something like this should be done after all he said he also promised to provide financial support. Such a meeting should be on the highest possible level. I said and he agreed I took the challenge and my visitor kept his promise. Three years later the First International Hair Congress was organized at the sophisticated new Congress Center in Hamburg in which 630 participants from 36 countries were registered. After three and a half days of formal sessions, informal discussions, workshops and poster presentations our unanimous feeling was that this has been a most successful meeting. The young chemist was right. The idea was excellent. The growth and presence of hair and its distribution over the human body as a cosmetic attribute has become during the last two decades a matter of tremendous emotional significance. Hair can be rather easily formed according to one's sense of style representing his personal image and his social feeling. If it becomes unacceptable or out of fashion the hair style can be easily changed. The hair regrows as a biological requisite without any additional cost. Homogeneous Catalysis Piet W.N.M. van Leeuwen, 2006-08-02. Homogeneous catalysis using transition metal complexes is an area of research that has grown enormously in recent years. Many amazing catalytic discoveries have been reported by researchers both in industry and in academia. Homogeneous Catalysis: Understanding the Art gives real insight in the many new and old reactions of importance. It is based on the author's extensive experience in both teaching and industrial practice. Each chapter starts with the basic knowledge and ends with up to date concepts. The focus of this book is on concepts but many key industrial

processes and applications that are important in the laboratory synthesis of organic chemicals are used as examples The full range of topics is covered such as fine chemicals bulk chemicals polymers high tech polymers pharmaceuticals but also important techniques and reaction types among other aspects For a few reactions the process schemes environmental concerns and safety aspects are included to encourage catalyst researchers to think about these topics at an early stage of their projects and to communicate with chemical engineers customers and the end users Homogeneous Catalysis Understanding the Art provides a balanced overview of the vibrant and growing field of homogeneous catalysis to chemists trained in different disciplines and to graduate students who take catalysis as a main or secondary subject This book is an invaluable tool for practising professionals and academia including Chemists in academia with an inorganic organic catalytic etc chemistry background PhD students in these fields and advanced students Research Institutes of Petrochemical industries Fine chemical industries Pharmaceutical industries Chemical Laboratories of Universities for Organic Industrial Inorganic and Physical Chemistry and Catalysis Graduate schools Currently there is no other book available that gives insight into so many reactions of importance while the field of homogeneous catalysis is becoming more and more important to organic chemists industrial chemists and academia This book will provide this background to chemists trained in a different discipline and graduate and masters students who take catalysis as a main or secondary topic Chemicals from Synthesis Gas R.A. Sheldon, 2013-04-18 The origins of the petrochemical industry can be traced back to the 1920s when simple organic chemicals such as ethanol and isopropanol were first prepared on an industrial scale from by products ethylene and propylene of oil refining This oil based petrochemical industry with lower olefins and aromatics as the key building blocks rapidly developed into the enormous industry it is today A multitude of products that are indispensable to modern day society from plastics to pharmaceuticals are derived from oil and natural gas based hydrocarbons The industry had its heyday in the 50s and 60s when predictions of future growth rates tended to be exponential curves However two developments that took place in the early 70s disturbed this simplistic and optimistic view of the future Firstly the publication of the report for the Club of Rome on the Limits to Growth emphasized the finite nature of non renewable fossil fuel resources Secondly the Oil Crisis of 1973 emphasized the vulnerability of an energy and chemicals industry that is based largely on a single raw material

**Chemistry Beyond Chlorine** Pietro Tundo, Liang-Nian He, Ekaterina Lokteva, Claudio Mota, 2016-09-17 Since the industrial revolution chlorine remains an iconic molecule even though its production by the electrolysis of sodium chloride is extremely energy intensive The rationale behind this book is to present useful and industrially relevant examples for alternatives to chlorine in synthesis This multi authored volume presents numerous contributions from an international spectrum of authors that demonstrate how to facilitate the development of industrially relevant and implementable breakthrough technologies This volume will interest individuals working in organic synthesis in industry and academia who are working in Green Chemistry and Sustainable Technologies Role of Antioxidants in Mitigating Plant Stress Azamal

Husen,2025-07-01 Role of Antioxidants in Mitigating Plant Stress explores the fundamental roles and mechanistic approaches of antioxidant stress tolerance strategies With chapters addressing both enzymatic and non enzymatic antioxidants it provides a clear guide for understanding plant responses Presenting current understanding of these components the book features their role molecular properties and reaction mechanisms to various environmental conditions This book provides an important reference for researchers and advanced level students seeking to improve plant health Plants are regularly exposed to various kinds of abiotic and biotic stresses in their natural environmental conditions These stresses have significant influence on agriculture worldwide and thus lead to massive economic losses as well as food insecurity Research has identified many of the effects of and mitigation techniques for various stresses that impact plant systems Strategies for strengthening the antioxidant defense system can increase yields and protect crop plants from a variety of stresses Discusses the modulation of antioxidant systems that enable plants to initiate short and long term mitigation responses Examines the potential of non enzymatic and enzymatic antioxidants in stress response Explores coordination of antioxidants plant hormones and PGPR for higher plant performance under various stresses

**The Chemistry of the Actinide Elements** G.T. Seaborg,Joseph J. Katz,L.R. Morss,2012-12-06 The first edition of this work appeared almost thirty years ago when as we can see in retrospect the study of the actinide elements was in its first bloom Although the broad features of the chemistry of the actinide elements were by then quite well delineated the treatment of the subject in the first edition was of necessity largely descriptive in nature A detailed understanding of the chemical consequences of the characteristic presence of  $f$  electrons in most of the members of the actinide series was still for the future and many of the systematic features of the actinide elements were only dimly apprehended In the past thirty years all this has changed The application of new spectroscopic techniques which came into general use during this period and new theoretical insights which came from a better understanding of chemical bonding inorganic chemistry and solid state phenomena were among the important factors that led to a great expansion and maturation in actinide element research and a large number of new and important findings The first edition consisted of a serial description of the individual actinide elements with a single chapter devoted to the six heaviest elements lawrencium the heaviest actinide was yet to be discovered Less than 15 % of the text was devoted to a consideration of the systematics of the actinide elements

**Ni- and Fe-Based Cross-Coupling Reactions** Arkaitz Correa,2016-11-26 The series Topics in Current Chemistry Collections presents critical reviews from the journal Topics in Current Chemistry organized in topical volumes The scope of coverage is all areas of chemical science including the interfaces with related disciplines such as biology medicine and materials science The goal of each thematic volume is to give the non specialist reader whether in academia or industry a comprehensive insight into an area where new research is emerging which is of interest to a larger scientific audience Each review within the volume critically surveys one aspect of that topic and places it within the context of the volume as a whole The most

significant developments of the last 5 to 10 years are presented using selected examples to illustrate the principles discussed. The coverage is not intended to be an exhaustive summary of the field or include large quantities of data but should rather be conceptual, concentrating on the methodological thinking that will allow the non specialist reader to understand the information presented. Contributions also offer an outlook on potential future developments in the field.

**Metal-Ligand Co-operativity** Gerard van Koten, Karl Kirchner, Marc-Etienne Moret, 2021-03-29 This book provides researchers in the fields of organic chemistry, organometallic chemistry and homogeneous catalysis with an overview of significant recent developments in the area of metal ligand cooperativity with a focus on pincer architectures. The various contributions highlight the widespread impact of M-L co-operativity phenomena on modern organometallic chemistry and catalyst development. The development of efficient and selective catalytic transformations relies on the understanding and fine control of the various elementary reactions that constitute a catalytic cycle. Co-operative ligands which actively participate in bond making and bond breaking together to the metal they support open up new avenues in this area. In particular, buttressing a weak or reactive metal ligand bond by flanking coordinating arms in a pincer ligand design is proving a versatile strategy to access robust metal complexes that exhibit unusual and selective reactivity patterns.

Degradation of Elastomers in Practice, Experiments and Modeling Gert Heinrich, Reinhold Kipscholl, Radek Stoček, 2022-10-14 This volume describes new insights into the main aspects of rubber degradation by material's fatigue wear and aging evolution as well as their impact on mechanical rubber properties. It provides a thorough state of art explanation of the essential chemical, physical and mechanical principles as well as practices of material characterization for wear prediction and to convey or define novel strategies and procedures of planning effective wear test programs. The initiating factors of abrasion, the development of surface abrasion on sharp and blunt tracks, so called cutting and chipping and the influence of smear and lubricants is also summarized. The volume is of interest to research scientists in related fields from academia and industry.

Principles of Polymer Chemistry A. Ravve, 2012-05-24 This successful textbook undergoes a change of character in the third edition. Where earlier editions covered organic polymer chemistry, the third edition covers both physical and organic chemistry. Thus kinetics and thermodynamics of polymerization reactions are discussed. This edition is also distinct from all other polymer textbooks because of its coverage of such currently hot topics as photonic polymers, electricity conducting polymers, polymeric materials for immobilization of reagents and drug release, organic solar cells, organic light emitting diodes. This textbook contains review questions at the end of every chapter, references for further reading and numerous examples of commercially important processes.

**Integration of Pharmaceutical Discovery and Development** Ronald T. Borchardt, Roger M. Freidinger, Tomi K. Sawyer, Philip L. Smith, 2006-01-19 In the late 1980s it became painfully evident to the pharmaceutical industry that the old paradigm of drug discovery which involved highly segmented drug sign and development activities would not produce an acceptable success rate in the future. Therefore in the early 1990s a paradigm shift occurred in which

drug design and development activities became more highly integrated. This new strategy required medicinal chemists to design drug candidates with structural features that optimized pharmacological e.g. high affinity and specificity for the target receptor, pharmaceutical e.g. solubility and chemical stability, biopharmaceutical e.g. cell membrane permeability and metabolic pharmacokinetic e.g. metabolic stability, clearance and protein binding properties. Successful implementation of this strategy requires a multidisciplinary team effort including scientists from drug design e.g. medicinal chemists, cell biologists, endocrinologists, pharmacologists and drug development e.g. analytical chemists, pharmaceutical scientists, physiologists and molecular biologists representing the disciplines of pharmaceuticals, biopharmaceuticals and pharmacokinetics, drug metabolism. With this new highly integrated approach to drug design now widely utilized by the pharmaceutical industry, the editors of this book have provided the scientific community with case histories to illustrate the nature of the interdisciplinary interactions necessary to successfully implement this new approach to drug discovery. In the first chapter, Ralph Hirschmann provides a historical perspective of why this paradigm shift in drug discovery has occurred.

*Organotitanium Reagents in Organic Synthesis* Manfred T. Reetz, 2013-11-11. Titanium has been used to perform many kinds of reactions in organic and inorganic chemistry. The present book is concerned primarily with a new development in titanium chemistry which is useful in organic synthesis. In 1979-80 it was discovered that the titanation of classical carbanions using  $C_1TiX$  leads to species with reduced basicity and reactivity. This increases 3-chemo regio and stereo selectivity in reactions with organic compounds such as aldehydes, ketones and alkyl halides. Many new examples have been reported in recent times. Since the nature of the ligand X at titanium can be widely varied, the electronic and steric nature of the reagents is easily controlled. This helps in predicting the stereochemical outcome of many of the C-C bond forming reactions, but the trial and error method is still necessary in other cases. One of the ultimate objectives of chemistry is to understand correlations between structure and reactivity. Although this goal has not been reached in the area of organotitanium chemistry, appreciable progress has been made. A great deal of physical and computational data of organotitanium compounds described in the current and older literature e.g. Ziegler-Natta type catalysts has been reported by polymer, inorganic and theoretical chemists. It is summarized in Chapter 2 of this book because some aspects are useful in understanding reactivity and selectivity of organotitanium compounds in organic synthesis as described in the chapters which follow.

*Energy Research Abstracts*, 1978-02. *Nanomaterials in Wastewater Research* Neha Agarwal, Maulin P. Shah, Vijendra Singh Solanki, Neetu Singh, 2025-06-27. This book explores the perspectives and prospects of nanotechnology in environmental remediation and provides a deep insight into the role of nanomaterials for wastewater remediation. The book also focuses on the need for novel developments in the nanomaterials which can target particular contaminants in wastewater. It also takes into account the challenges involved in the application of these nanomaterials, their social and economic aspects and future directions in multifaceted aspects of nanomaterial use that will facilitate future research to formulate the strategies for environmental restoration. Nanotechnology offers new and



improved environmental remediation technologies such as nanophotocatalysts nanosensors nanodevices nanofilters and nanoadsorbents for the decontamination of toxic pollutants groundwater and industrial wastewater Considering the capabilities of nanotechnology in controlling eliminating and purifying environmental pollutants it can also be considered as a green technology and an effective tool to achieve sustainable environment

*Group 2 Mediated Dehydrocoupling* David J Liptrot, 2015-07-28 This book presents an in depth study into the utility of bond metathesis in Group 2 mediated reactivity A comprehensive introduction defines the state of the art in both Group 2 mediated catalysis and dehydrocoupling Structural investigations giving rise to a range of mixed s block metal hydrides including a remarkable dodecabimetallic decahydride are then described Subsequent extensive mechanistic work focussing on both silicon nitrogen and boron nitrogen dehydrocoupling gives insights into both congeneric effects down Group 2 and ligand effects centring upon magnesium These studies show the striking effects of these factors as well as the electronic nature of the hydridic coupling partner Finally the unprecedented introduction of single electron transfer steps into Group 2 catalytic manifolds is described The use of the stable radical TEMPO to induce single electron transfer to substituents bound to Group 2 centres coupled with bond metathesis allows a novel hydrogen release from silanes

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