



The Organometallic Chemistry of the Transition Metals

Crabtree, Robert H.

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Organometallic Chemistry Of The Transition Metals

Masahiro Murakami, Naoto Chatani



Organometallic Chemistry Of The Transition Metals:

The Organometallic Chemistry of the Transition Metals Robert H. Crabtree, 2005-06-14 Fully updated and expanded to reflect recent advances this Fourth Edition of the classic text provides students and professional chemists with an excellent introduction to the principles and general properties of organometallic compounds as well as including practical information on reaction mechanisms and detailed descriptions of contemporary applications

The Organometallic Chemistry of the Transition Metals Robert H. Crabtree, 1994-04 Later chapters discuss applications of organometallics such as catalytic uses of transition metals activation of small molecules applications to organic synthesis and carbenes metathesis and polymerization Also discussed are the role of organometallics in biochemical areas clusters metal metal bonds and high oxidation state complexes

Fundamental Transition Metal Organometallic Chemistry Charles M. Lukehart, 1985

Transition-Metal Organometallic Chemistry R. Bruce King, 2012-12-02 Transition Metal Organometallic Chemistry An Introduction presents the basic facts and principles of transition metal organometallic chemistry The book discusses the general principles of transition metal organometallic chemistry the organometallic derivatives of the early transition metals and the organometallic derivatives of chromium molybdenum and tungsten The text also describes the organometallic derivatives of manganese technetium and rhenium the organometallic derivatives of iron ruthenium and osmium and the organometallic derivatives of cobalt rhodium and iridium The organometallic derivatives of nickel palladium platinum copper silver and gold are also considered Chemists and chemistry students will find the book invaluable

Transition Metals in the Synthesis of Complex Organic Molecules Louis S. Hege, 1999 This second edition offers easy access to the field of organotransition metal chemistry The book covers the basics of transition metal chemistry giving a practical introduction to organotransition reaction mechanisms

Organometallic Chemistry of the Transition Elements Florian P. Pruchnik, 1990-09-30 Organometallic chemistry belongs to the most rapidly developing area of chemistry today This is due to the fact that research dealing with the structure of compounds and chemical bonding has been greatly intensified in recent years Additionally organometallic compounds have been widely utilized in catalysis organic synthesis electronics etc This book is based on my lectures concerning basic organometallic chemistry for fourth and fifth year chemistry students and on my lectures concerning advanced organometallic chemistry and homogeneous catalysis for Ph D graduate students Many recent developments in the area of organometallic chemistry as well as homogeneous catalysis are presented Essential research results dealing with a given class of organometallic compounds are discussed briefly Results of physicochemical research methods of various organometallic compounds as well as their synthesis properties structures reactivities and applications are discussed more thoroughly The selection of tabulated data is arbitrary because often it has been impossible to avoid omissions Nevertheless these data can be very helpful in understanding properties of organometallic compounds and their reactivities All physical data are given in SI units the interatomic distances are given in pm units in figures and tables I

am indebted to Professor S A Duraj for translating and editing this book His remarks discussions and suggestions are greatly appreciated I also express gratitude to Virginia E Duraj for editing and proofreading

Organic Synthesis Using Transition Metals Roderick Bates, 2012-04-30 Transition metals open up new opportunities for synthesis because their means of bonding and their reaction mechanisms differ from those of the elements of the s and p blocks In the last two decades the subject has mushroomed established reactions are seeing both technical improvements and increasing numbers of applications and new reactions are being developed The practicality of the subject is demonstrated by the large number of publications coming from the process development laboratories of pharmaceutical companies and its importance is underlined by the fact that three Nobel prizes have been awarded for discoveries in this field in the 21st Century already Organic Synthesis Using Transition Metals 2nd Edition considers the ways in which transition metals as catalysts and reagents can be used in organic synthesis both for pharmaceutical compounds and for natural products It concentrates on the bond forming reactions that set transition metal chemistry apart from classical organic chemistry Each chapter is extensively referenced and provides a convenient point of entry to the research literature Topics covered include introduction to transition metals in organic synthesis coupling reactions C H activation carbonylative coupling reactions alkene and alkyne insertion reactions electrophilic alkene and alkyne complexes reactions of alkyne complexes carbene complexes h^3 or p allyl allyl complexes diene dienyl and arene complexes cycloaddition and cycloisomerisation reactions For this second edition the text has been extensively revised and expanded to reflect the significant improvements and advances in the field since the first edition as well as the large number of new transition metal catalysed processes that have come to prominence in the last 10 years for example the extraordinary progress in coupling reactions using designer ligands catalysis using gold complexes new opportunities arising from metathesis chemistry and C H activation without neglecting the well established chemistry of metals such as palladium Organic Synthesis Using Transition Metals 2nd Edition will find a place on the bookshelves of advanced undergraduates and postgraduates working in organic synthesis catalysis medicinal chemistry and drug discovery It is also useful for practising researchers who want to refresh and enhance their knowledge of the field

Transition Metals in the Synthesis of Complex Organic Molecules Louis S. Hegedus, Bjorn Söderberg, 2009-07-29 This title is written for organic chemists and offers an easy entry into the field of organotransition metal chemistry without requiring a background in inorganic chemistry The third edition of Transition Metals in the Synthesis of Complex Organic Molecules is a comprehensive revision and significant expansion of the second edition The clear and systematic approach to the formation manipulation and reactivity of organometallic complexes has been maintained The book is divided into 10 chapters starting with general formalisms electron counting and basic principles of organometallic reaction mechanisms The organic chemistry of transition metals is then presented by class of metal complex with many examples of applications in the synthesis of complex natural products and pharmaceuticals The book is ideal for advanced undergraduate and graduate students as well

as all practicing synthetic organic chemists It is written for organic chemists and offers an easy entry into the field of organotransition metal chemistry without requiring a background in inorganic chemistry

Organotransition Metal Chemistry A Mechanistic Approach Richard Heck, 2012-12-02 Organotransition Metal Chemistry A Mechanistic Approach describes a mechanistic approach to the study of the chemistry of organotransition metals Organotransition metals are discussed in relation to their reactions with specific functional groups or types of compounds rather than by metals Topics covered include the formation of hydrogen and carbon bonds to transition metals reactions of transition metal d and p bonded derivatives and addition and elimination reactions of olefinic compounds This book is comprised of 10 chapters and begins with a historical overview of organotransition metal chemistry together with the unique chemistry of transition metals and mechanisms of ligand replacements The following chapters discuss the methods of preparation of hydrido complexes and carbon transition metal bonds homogeneous hydrogenation reactions isomerization dimerization oligomerization and polymerization of olefins and reactions of dienes trienes and tetraenes with transition metal compounds Transition metal reactions with acetylenes and carbon monoxide as well as organic carbonyl compounds are also examined This monograph should be of value to organic chemists as well as students and researchers of organic chemistry

Organotransition Metal Chemistry John F. Hartwig, 2010-02-10 Based on Collman et al s best selling classic book Principles and Applications of Organotransition Metal Chemistry Hartwig s text consists of new or thoroughly updated and restructured chapters and provides an in depth view into mechanism reaction scope and applications It covers the most important developments in the field over the last twenty years with great clarity with a selective but thorough and authoritative coverage of the fundamentals of organometallic chemistry the elementary reactions of these complexes and many catalytic processes occurring through organometallic intermediates making this the Organotransition Metal Chemistry text for a new generation of scientists

Principles of Organometallic Chemistry P. Powell, 2013-12-21 Molecular Chemistry of the Transition Elements François Mathey, Alain Sevin, 1996-11-21 Using a systematic and theoretical approach this outstanding textbook offers a succinct introduction to the underlying principles of organometallic chemistry with a strong emphasis on reactions mechanisms It links theory with the chemical properties of the compounds enabling students to classify the variety of compounds and to understand the basic reaction mechanisms of diverse classes of compounds Chapters with selected applications help students to transfer the theoretical knowledge to real life chemistry Contains numerous examples

Principles and Applications of Organotransition Metal Chemistry James Paddock Collman, 1987 This textbook introduces students and experienced chemists to a rapidly growing interdisciplinary subject It incorporates a thorough revision of the earlier edition and includes all new developments

Organometallic Chemistry Hiroshi Nakazawa, Julian Koe, 2021-07-19 Designed for teaching this book can be used as an introductory text for chemistry undergraduates and will also provide a bridge to more advanced courses

Cleavage of Carbon-Carbon Single Bonds by Transition Metals Masahiro

Murakami, Naoto Chatani, 2015-09-21 Edited by leading experts and pioneers in the field this is the first up to date book on this hot topic The authors provide synthetic chemists with different methods to activate carbon carbon sigma bonds in organic molecules promoted by transition metal complexes They explain the basic principles and strategies for carbon carbon bond cleavage and highlight recently developed synthetic protocols based on this methodology In so doing they cover cleavage of C C bonds in strained molecules reactions involving elimination of carbon dioxide and ketones reactions via retroallylation and cleavage of C C bonds of ketones and nitriles The result is an excellent information source for researchers in academia and industry working in the field of synthetic organic chemistry while equally serving as supplementary reading for advanced courses in organometallic chemistry and catalysis

Organometallic Chemistry and Catalysis

Didier Astruc, 2007-08-02 This volume covers both basic and advanced aspects of organometallic chemistry of all metals and catalysis In order to present a comprehensive view of the subject it provides broad coverage of organometallic chemistry itself The catalysis section includes the challenging activation and fictionalization of the main classes of hydrocarbons and the industrially crucial heterogeneous catalysis Summaries and exercises are provided at the end of each chapter and the answers to these exercises can be found at the back of the book Beginners in inorganic organic and organometallic chemistry as well as advanced scholars and chemists from academia and industry will find much value in this title

Transition-metal Organometallic Chemistry, 1988

The Organometallic Chemistry of the Transition Metals

Robert H. Crabtree, 2011-09-20 One impressive and compressive book This review would have to be book size to do full justice to all the insights in this volume Journal of Metals Online Fully updated and expanded to reflect recent advances this Fifth Edition of the classic text provides students and professional chemists with a comprehensive introduction to the principles and general properties of organometallic compounds as well as including practical information on reaction mechanisms and detailed descriptions of contemporary applications With increased focus on organic synthesis applications nanoparticle science and green chemistry the Fifth Edition brings this vital resource up to date New to the Fifth Edition Chapters have been updated with relevant examples in the field modern trends and new applications the organic applications chapter has been completely rewritten New end of chapter problems along with their solutions Coverage enhanced with developments in nanoparticle science Increased focus on green chemistry An unparalleled pedagogic resource as well as a valuable working reference for professional chemists with comprehensive coverage and up to date information students and researchers in organic and organometallic chemistry will turn to The Organometallic Chemistry of the Transition Metals Fifth Edition for the critical information they need on organometallic compounds their preparation and their use in synthesis

Organometallics Manfred Bochmann, 2009 Few areas of chemistry have developed so rapidly and contributed so widely not only to the fundamental understanding of the nature of the chemical bond but also to its commercial application as the organometallic chemistry of the transition metals Central to this development was the discovery of ferrocene and the

recognition of the sandwich structure This volume highlights the key structural types of metal complexes with unsaturated organic ligands complexes with alkenes alkynes cyclopentadienyls allyls and arenes Organotransition Metal Chemistry
Akio Yamamoto, 1986 A systematic readable treatment of organotransition metal chemistry that provides students teachers and practicing chemists with an understanding of basic concepts in catalysis and synthetic procedures using transition metal reagents Covers basic principles of coordination chemistry organometallic compounds of transition metals and non transition metals reactions industrial applications use in synthesis methods of manipulation for air sensitive compounds and an overview of related topics Well illustrated with figures and formulae

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