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~~Publisher: OUP USA; Second Edition edition (15 Oct. 2009) Language: English; ISBN-10: 0195330994; ISBN-13: 978-0195330991; Product Dimensions: 23.6 x 3.3 x 19.6 cm Customer reviews: 3.5 out of 5 stars 6 customer ratings; Amazon Bestsellers Rank: 5,838,593 in Books (See Top 100 in Books) #3619 in Organic Chemistry (Books)~~

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Organometallic Chemistry, 2nd Edition by Miessler and Spessard. Organometallic chemistry is an exciting and rapidly-expanding field that has changed considerably over the 12 years intervening between the first edition of our textbook and the appearance of this new edition.

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Publication Date - June 2015. ISBN: 9780199342679. 800 pages. Hardcover. 7-1/2 x 9-1/4 inches. In Stock. Retail Price to Students: \$162.95. Teach the fundamentals of organometallic chemistry with seminal experiments, analysis of real data, and the most comprehensive problem sets available. Description.

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The third edition of Spessard and Miessler's textbook provides a useful starting point for students seeking to learn the fundamentals of organometallic chemistry. (Jon Parquette, The Ohio State University) The new edition of Organometallic Chemistry is well tailored to a one-semester course for graduate and undergraduate students. Spessard and ...

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More than 1,100 illustrations and structures, a 28% increase over the second edition. A special table of contents and bolded entries in the index to direct readers to the sections of the text that cover spectroscopic methods, including NMR, IR, and mass spectroscopy. Expanded emphasis on green chemistry.

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Organometallic Chemistry: International Edition by Spessard, Gary O.; Miessler, Gary L. at AbeBooks.co.uk - ISBN 10: 0199744491 - ISBN 13: 9780199744497 - OUP USA - 2010 - Hardcover

Spessard and Miessler's Organometallic Chemistry, originally published by Prentice Hall in 1997, is widely acknowledged as the most appropriate text for undergraduates and beginning graduate students taking this course. It is a highly readable and approachable text that starts with the basic inorganic chemistry needed to understand this advanced topic. Unlike the primary competing book by Crabtree (Wiley), S/M places a strong emphasis on structure and bonding in the first several chapters, which lay the foundation for later discussion of reaction types and applications. The organization of material is much more accessible for students who have never seen organometallic chemistry before. In addition to being pitched at the right level for undergraduate students, S/M presents outstanding explanations of important core topics such as molecular orbitals and bonding and supports these discussions with detailed illustrations and praised end of chapter problems. The second edition has been significantly revised and updated to include advancements over the last ten years in NMR, IR spectroscopy, nanotechnology and physical methods. The authors have significantly updated four chapters (9, 10, 11 and 12). Chapter 9 (catalysis) has been revised to cover the advances in catalytic cycle research. Chapter 10 in the first edition, which covered carbene complexes, metathesis, and polymerization, has been divided into two chapters in view of the expanded research efforts that have occurred over the last ten years in these areas. Chapter 10 in the second edition now focuses on carbene complexes, and Chapter 11 covers aspects of metathesis and polymerization reactions including an expanded discussion of Schrock and Grubbs metal carbene catalysts. Chapter 12 (Chapter 11, first edition) is a substantially-revised treatment of the applications of organometallic chemistry to organic synthesis. This chapter offers an extensive discussion of asymmetric hydrogenationand oxidation methodology as well as a greatly revised treatment of Tsuji-Trost allylation, the Heck reaction, and palladium-catalyzed cross-coupling reactions. The latter topic includes discussion of the Stille, Suzuki, Sonogashira, and Negishi cross-couplings, reactions that have had a profound impact on the synthesis of anti-tumor compounds and other potent pharmaceuticals. In addition, the authors have included more molecular model illustrations, and introduced more modern examples and medical/medicinal applications across the text. They have included 53% more in-chapter exercises and end-of-chapter problems (23% more exercises and 81% more EOCs). The second edition has been extensively updated to include current literature (62% more references to the chemical literature).

Explains the underlying structure that unites all disciplinesin chemistry Now in its second edition, this book explores organic,organometallic, inorganic, solid state, and materials chemistry,demonstrating how common molecular orbital situations arisethroughout the whole chemical spectrum. The authors explore therelationships that enable readers to grasp the theory thatunderlies and connects traditional fields of study withinchemistry, thereby providing a conceptual framework with which tothink about chemical structure and reactivity problems. Orbital Interactions in Chemistry begins by developingmodels and reviewing molecular orbital theory. Next, the bookexplores orbitals in the organic-main group as well as in solids.Lastly, the book examines orbital interaction patterns that occurin inorganic-organometallic fields as well as clusterchemistry, surface chemistry, and magnetism in solids. This Second Edition has been thoroughly revised andupdated with new discoveries and computational tools since thepublication of the first edition more than twenty-five years ago.Among the new content, readers will find: Two new chapters dedicated to surface science and magneticproperties Additional examples of quantum calculations, focusing oninorganic and organometallic chemistry Expanded treatment of group theory New results from photoelectron spectroscopy Each section ends with a set of problems, enabling readers totest their grasp of new concepts as they progress through the text.Solutions are available on the book's ftp site. Orbital Interactions in Chemistry is written for bothresearchers and students in organic, inorganic, solid state,materials, and computational chemistry. All readers will discoverthe underlying structure that unites all disciplines inchemistry.

Designed with both undergraduate and graduate students in mind, Spessard and Miessler presents the fundamentals of organometallic chemistry through the presentation of seminal experiments, analysis of real data, and the inclusion of the most comprehensive problem sets available.

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 provides 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.

THE textbook on organometallic chemistry. Comprehensive and up-to-date, the German original is already a classic, making this third completely revised and updated English edition a must for graduate students and lecturers in chemistry, inorganic chemists, chemists working with/on organometallics, bioinorganic chemists, complex chemists, and libraries. Over one third of the chapters have been expanded to incorporate developments since the previous editions, while the chapter on organometallic catalysis in synthesis and production appears for the first time in this form. From the reviews of the first English editions: 'The selection of material and the order of its presentation is first class ... Students and their instructors will find this book extraordinarily easy to use and extraordinarily useful.' -Chemistry in Britain 'Elschenbroich and Salzer have written the textbook of choice for graduate or senior-level courses that place an equal emphasis on main group element and transition metal organometallic chemistry. ... this book can be unequivocally recommended to any teacher or student of organometallic chemistry.' - Angewandte Chemie International Edition 'The breadth and depth of coverage are outstanding, and the excitement of synthetic organometallic chemistry comes across very strongly.' - Journal of the American Chemical Society

Showcases the important role of organometallic chemistry in industrial applications and includes practical examples and case studies This comprehensive book takes a practical approach to how organometallic chemistry is being used in industrial applications. It uniquely offers numerous, real-world examples and case studies that aid working R&D researchers as well as Ph.D. and postdoc students preparing to ace interviews in order to enter the workforce. Edited by two world-leading and established industrial chemists, the book covers flow chemistry (catalytic and non-catalytic organometallic chemistry), various cross-coupling reactions (C-C, C-N, and C-B) in classical batch chemistry, conjugate addition reactions, metathesis, and C-H arylation and achiral hydrogenation reactions. Beginning with an overview of the many industrial milestones within the field over the years, Organometallic Chemistry in Industry: A Practical Approach provides chapters covering: the design, development, and execution of a continuous flow enabled API manufacturing route; continuous manufacturing as an enabling technology for low temperature organometallic chemistry; the development of a nickel-catalyzed enantioselective Mizoroki-Heck coupling; and the development of iron-catalyzed Kumada cross-coupling for the large scale production of Aliskiren intermediates. The book also examines aspects of homogeneous hydrogenation from industrial research; the latest industrial uses of olefin metathesis; and more. -Includes rare industrial case studies difficult to find in current literature -Helps readers successfully carry out their own reactions -Covers topics like flow chemistry, cross-coupling reactions, and dehydrative decarbonylation -Features a foreword by Nobel Laureate R. H. Grubbs -A perfect resource for every R&D researcher in industry -Useful for PhD students and postdocs: excellent preparation for a job interview Organometallic Chemistry in Industry: A Practical Approach is an excellent resource for all chemists, including those working in the pharmaceutical industry and organometallics.

An advanced-level textbook of inorganic chemistry for the graduate (B.Sc) and postgraduate (M.Sc) students of Indian and foreign universities. This book is a part of four volume series, entitled "A Textbook of Inorganic Chemistry – Volume I, II, III, IV". CONTENTS: Chapter 1. Stereochemistry and Bonding in Main Group Compounds: VSEPR theory, dn -pn bonds, Bent rule and energetic of hybridization. Chapter 2. Metal-Ligand Equilibria in Solution: Stepwise and overall formation constants and their interactions, Trends in stepwise constants, Factors affecting stability of metal complexes with reference to the nature of metal ion and ligand, Chelate effect and its thermodynamic origin, Determination of binary formation constants by pH-metry and spectrophotometry. Chapter 3. Reaction Mechanism of Transition Metal Complexes – I: Inert and labile complexes, Mechanisms for ligand replacement reactions, Formation of complexes from aquo ions, Ligand displacement reactions in octahedral complexes- acid hydrolysis, Base hydrolysis, Racemization of tris chelate complexes, Electrophilic attack on ligands. Chapter 4. Reaction Mechanism of Transition Metal Complexes – II: Mechanism of ligand displacement reactions in square planar complexes, The trans effect, Theories of trans effect, Mechanism of electron transfer reactions – types; Outer sphere electron transfer mechanism and inner sphere electron transfer mechanism, Electron exchange. Chapter 5. Isopoly and Heteropoly Acids and Salts: Isopoly and Heteropoly acids and salts of Mo and W: structures of isopoly and heteropoly anions. Chapter 6. Crystal Structures: Structures of some binary and ternary compounds such as fluorite, antiferite, rutile, antirutile, crysotallite, layer lattices- CdI2, BiI3; ReO3, Mn2O3, corundum, perovskite, ilmenite and Calcite. Chapter 7. Metal-Ligand Bonding: Limitation of crystal field theory, Molecular orbital theory, octahedral, tetrahedral or square planar complexes, π -bonding and molecular orbital theory. Chapter 8. Electronic Spectra of Transition Metal Complexes: Spectroscopic ground states, Correlation and spin-orbit coupling in free ions for 1st series of transition metals, Orgel and Tanabe-Sugano diagrams for transition metal complexes (d1 – d9 states), Calculation of Dq, B and β parameters, Effect of distortion on the d-orbital energy levels, Structural evidence from electronic spectrum, John-Teller effect, Spectrochemical and nephaluxetic series, Charge transfer spectra, Electronic spectra of molecular addition compounds. Chapter 9. Magantic Properties of Transition Metal Complexes: Elementary theory of magneto - chemistry, Guoy's method for determination of magnetic susceptibility, Calculation of magnetic moments, Magnetic properties of free ions, Orbital contribution, effect of ligand-field, Application of magneto-chemistry in structure determination, Magnetic exchange coupling and spin state cross over. Chapter 10. Metal Clusters: Structure and bonding in higher boranes, Wade's rules, Carboranes, Metal Carbonyl Clusters - Low Nuclearity Carbonyl Clusters, Total Electron Count (TEC). Chapter 11. Metal-n Complexes: Metal carbonyls, structure and bonding, Vibrational spectra of metal carbonyls for bonding and structure elucidation, Important reactions of metal carbonyls; Preparation, bonding, structure and important reactions of transition metal nitrosyl, dinitrogen and dioxygen complexes; Tertiary phosphine as ligand.

This reference describes standard and nonstandard coordination modes of ligands in complexes, the intricacies of polyhedron-programmed and regioselective synthesis, and the controlled creation of coordination compounds such as molecular and h-n-p-complexes, chelates, and homo- and hetero-nuclear compounds. It offers a clear and concise review of modern synthetic techniques of metal complexes as well as lesser known gas- and solid-phase synthesis, electrosynthesis, and microwave and ultrasonic treatment of the reaction system. The authors pay special attention to o-hydroxyazomethines and their S-, Se-containing analogues, b-diketones, and quinines, among others, and examine the immediate interaction of ligands and metal salts or carbonyls.

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