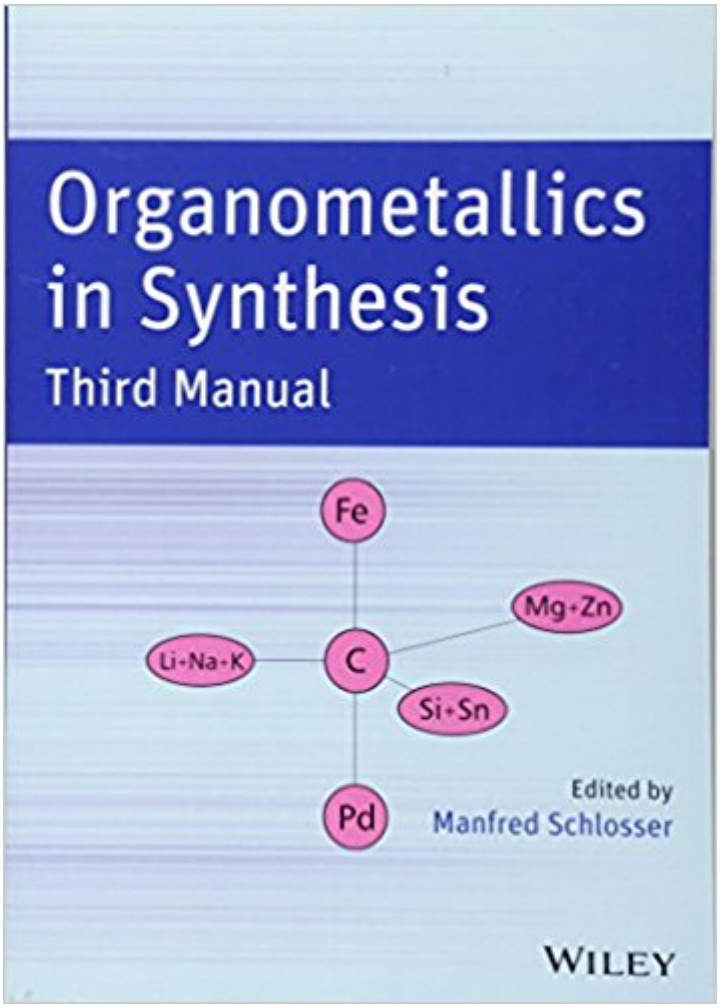
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Organometallics In Synthesis, Third Manual



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Synopsis

WINNER of the 2013 PROSE Award in Chemistry & Physics This latest edition enables readers to master new classes of organometallic compounds and syntheses A popular resource used by synthetic organic chemists around the world, this book enables readers to conduct seamless synthetic reactions involving key organometallics. Each reaction is set forth in the book's acclaimed recipe-style format so that readers can easily replicate the results in their own labs. Moreover, each chapter has been written by a world leader in the field of organometallics in organic synthesis. These authors offer hands-on guidance and practical examples illustrating the preparation of organometallics and its application in organic synthesis. This Third Manual of Organometallics in Synthesis features completely new content and topics, with an eye towards providing researchers with the most useful and practical reference on the synthesis of organometallics. Organized into chapters by type of organometallic compound, the book covers: Organoalkali chemistry Organomagnesium and organozinc chemistry Organosilicon and relating organotin chemistry Organoiron chemistry Organopalladium chemistry Within each chapter, readers will find background information to learn more about the class of organometallics as well as mechanistic considerations. The authors thoroughly discuss the various methods of preparing the organometallic compounds presented in the book and outline their uses in synthetic reactions. In addition to current applications, the authors explore future research opportunities for each organometallic class. References at the end of each chapter enable readers to explore all the topics in greater depth. More and more industrial processes rely on organometallic chemistry. As a result, readers will find this book's step-by-step instructions essential in such fields as natural product synthesis, pharmaceuticals, fine chemicals, biotechnology, polymers, and materials science.

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This latest edition enables readers to master new classes of organometallic compounds and syntheses A popular resource used by synthetic organic chemists around the world, this book enables readers to conduct seamless synthetic reactions involving key organometallics. Each reaction is set forth in the book's acclaimed recipe-style format so that readers can easily replicate the results in their own labs. Moreover, each chapter has been written by a world leader in the field of organometallics in organic synthesis. These authors offer hands-on guidance and practical examples illustrating the preparation of organometallics and its application in organic synthesis. This Third Manual of Organometallics in Synthesis features completely new content and topics, with an eye towards providing researchers with the most useful and practical reference on the synthesis of organometallics. Organized into chapters by type of organometallic compound, the book covers: Organoalkali chemistry Organomagnesium and organozinc chemistry Organosilicon and relating organotin chemistry Organoiron chemistry Organopalladium chemistry Within each chapter, readers will find background information to learn more about the class of organometallics as well as mechanistic considerations. The authors thoroughly discuss the various methods of preparing the organometallic compounds presented in the book and outline their uses in synthetic reactions. In addition to current applications, the authors explore future research opportunities for each organometallic class. References at the end of each chapter enable readers to explore all the topics in greater depth. More and more industrial processes rely on organometallic chemistry. As a result, readers will find this book's step-by-step instructions essential in such fields as natural product synthesis, pharmaceuticals, fine chemicals, biotechnology, polymers, and materials science.

MANFRED SCHLOSSER, PhD, is Emeritus Professor of Chemistry at the Swiss Federal Institute of Technology in Lausanne, Switzerland. His research examines the intersection between physical organic chemistry and applied synthesis. In addition to editing the previous editions of Organometallics in Synthesis, Dr. Schlosser has authored over 300 original research articles and thirty-four monographs and reviews.

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