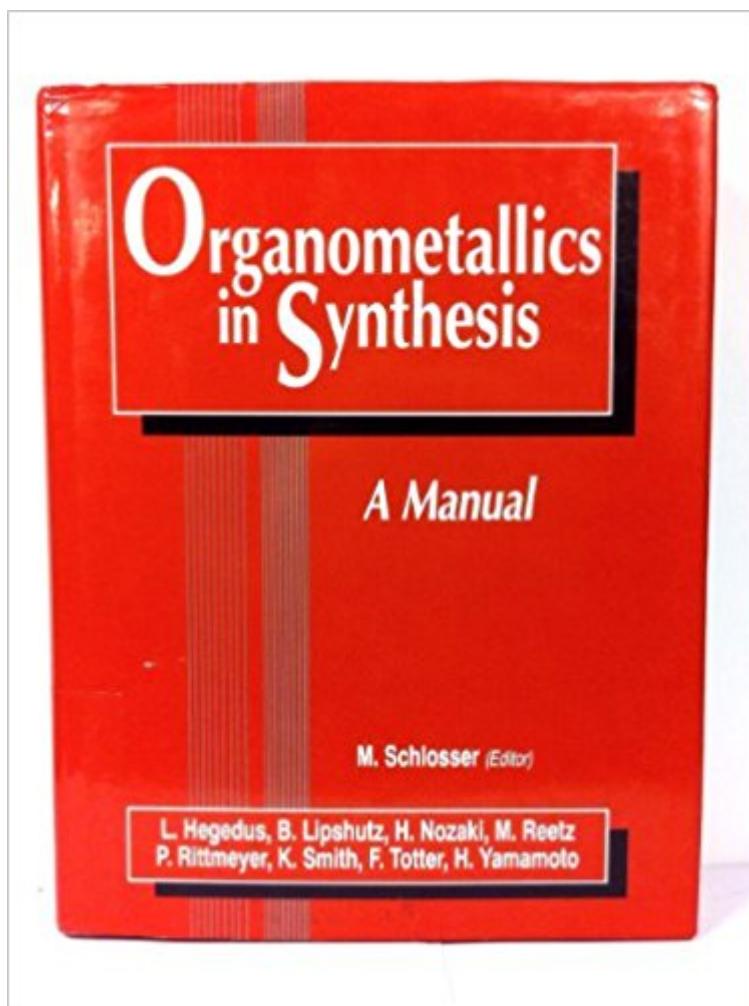


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Organometallics In Synthesis: A Manual



Synopsis

This book presents a practical introduction into the organic syntheses using organometallic reagents and catalysts. Addressing the most important issues, it restricts itself to the derivatives of less than a dozen metals, focusing on those which are most versatile and frequently used. Provides practical advice on how to choose the best methods and conditions and how to carry out and work up organometallic reactions. Details the fundamental facts and the mechanistic background needed to fully understand why a reaction follows a given course.

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Deals with organometallic chemistry as applied to organic synthesis. Addressing the most important issues, it restricts itself to the derivatives of less than a dozen metals, focusing on those which are most versatile and frequently used. The level of the book is advanced, although not specialized, and so is attractive to researchers at all levels of expertise. An enormous amount of practical advice concerning how to choose the best methods and conditions and how to carry out and work up organometallic reactions will aid newcomers to the subject. Provides both the fundamental facts and the mechanistic background needed to fully understand why a reaction follows a given course and, more generally, the opportunity to evaluate the potential for organometallic chemistry in other areas.

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Organometallics in Synthesis A Manual Edited by M. Schlosser, UniversitÃ© de Lausanne, Switzerland Organometallics in Synthesis -A Manual deals with organometallic chemistry as applied

to organic synthesis. Addressing the most important issues, it restricts itself to the derivatives of less than a dozen metals, focusing on those which are most versatile and frequently used. The level of the book is advanced, although not specialized, and so it is attractive to researchers at all levels of expertise. Newcomers to the subject will be aided by the enormous amount of practical advice concerning choosing the best methods and conditions, and how to carry out and work up organometallic reactions. In addition, the book provides both the fundamental facts and the mechanistic background needed to understand fully why a reaction follows a given course and, more generally, the opportunity to evaluate the potential for organometallic chemistry in other areas. Experts in the field will appreciate the critical survey of a booming subject area as well as extensive literature quotations. Attention is directed to novel concepts, recent achievements and major new trends. Despite all their skills, they may still learn a few new experimental tricks! Contents:

Organoalkali Chemistry (Organoalkali reagents; Organolithium compounds in industry);
Organotransition Element Chemistry (Organotitanium reagents; Organocopper reagents;
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