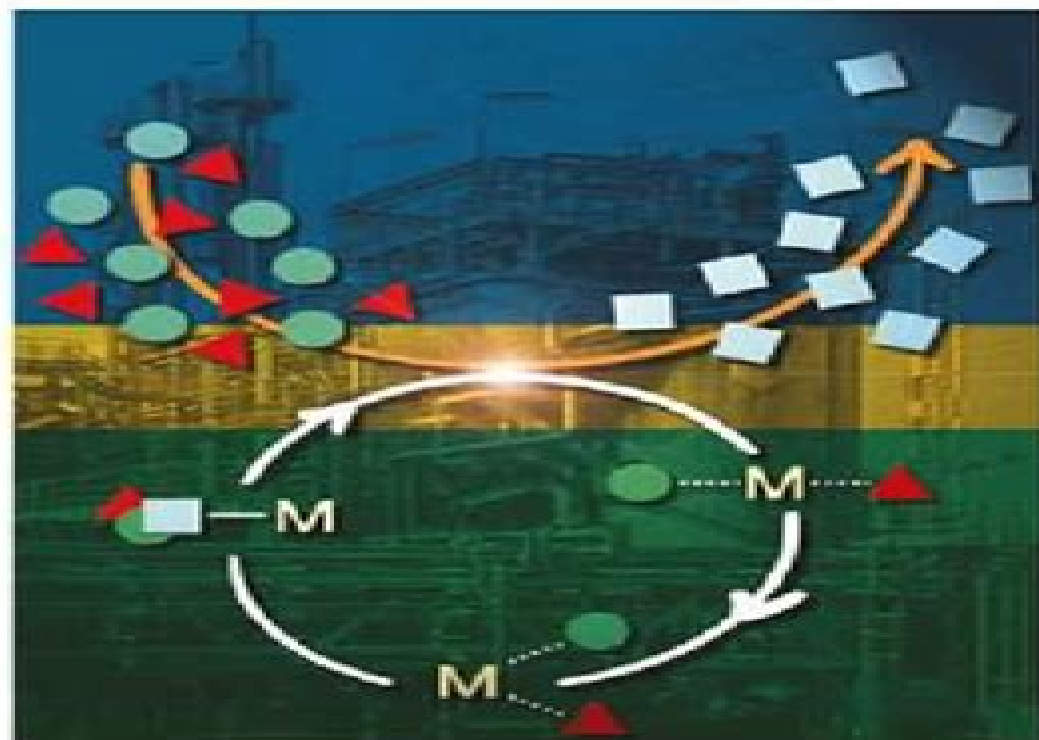


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Volume 1



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of running industrial chemical processes in a sustainable manner and provide an up to date insight into the main concerns e.g. the use of renewable raw materials, the use of alternative energy sources in chemical processes, the design of intrinsically safe processes, microreactor and integrated reaction separation technologies, process intensification, waste reduction, new catalytic routes and/or solvent and process optimization.

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.

Ullmann's Fine Chemicals Wiley-VCH, 2014-01-07 A compilation of 76 articles from the ULLMANN's Encyclopedia of Industrial Chemistry, this three volume handbook contains a wealth of information on the production and industrial use of more than 2 000 of the most important fine chemicals from Alcohols to Urea Derivatives. Chemical and physical characteristics, production processes and production figures, main uses, toxicology and safety information are all found here in one single resource.

Introduction to Green Chemistry John Andraos, Albert S. Matlack, 2022-03-09 Interest in green chemistry and clean processes has grown so much in recent years that topics such as fluorous biphasic catalysis, metal-organic frameworks and process intensification, which were barely mentioned in the First Edition, have become major areas of research. In addition, government funding has ramped up the development of fuel cells and biofuels. This reflects the evolving focus from pollution remediation to pollution prevention. Copiously illustrated with more than 800 figures, the Third Edition provides an update from the frontiers of the field. It features supplementary exercises at the end of each chapter relevant to the chemical examples introduced in each chapter. Particular attention is paid to a new concluding chapter on the use of green metrics as an objective tool to demonstrate proof of synthesis plan efficiency and to identify where further improvements can be made through fully worked examples relevant to the chemical industry.

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