



ACIDO-BASIC CATALYSIS 2 VOLUME-SET: Applications to refining and Petrochemistry (IFP Publications)

Christian Marcilly

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This book presents a complete overview of acido-basic catalysis applied to refining and petrochemistry, as well as the fundamentals and the information required for a rational and coherent description of the major operations carried out in these two industries. The book places special emphasis on the reactional and mechanistic characteristics of hydrocarbon conversions and on the properties of the acids or bases underlying catalytic performance. It also focuses on the industrial aspects, showing how these characteristics and properties determine the choice and features of the processes used. This reference manual is intended for professionals, scientists, engineers and teachers wanting to acquire a solid background, develop their knowledge or find further information. It will also be useful to students specialising in catalysis and the catalytic conversions of hydrocarbons. Contents: Volume 1. 1. Overview on Acido-Basicity. 2. Main Acids, Superacids and Bases of Interest in Catalysis. 3. Chemistry of Carbocations. 4. Reactivity and Conversion Modes of the Main Hydrocarbon Families. 5. Introduction to Refining and Petrochemistry. 6. Base Catalysis. Examples of Industrial Applications. Glossary. Index. Volume 2. 7. Conversion of Aliphatic Feedstocks. 8. Conversion of Simple Aromatic Feedstocks. 9. Reactions between Various Hydrocarbons and the Alcohols. Conversion of Methanol into Hydrocarbons. 10. Catalytic Reforming. 11. Processes Used in the Conversion of Heavy Feedstocks. 12. Catalytic Dewaxing. 13. Shape Selectivity in Acid Catalysis. Conclusion. Glossary. Index.

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