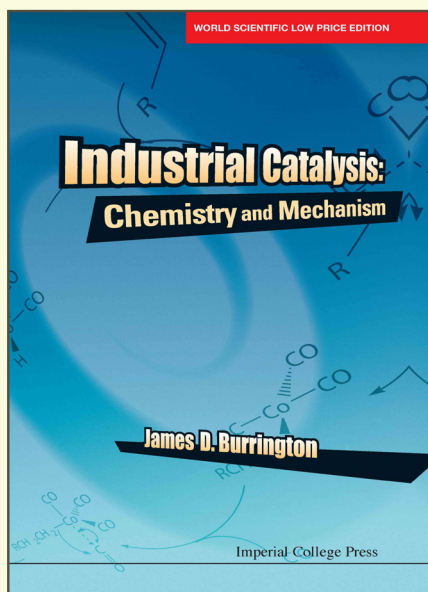


# Industrial Catalysis

## Chemistry and Mechanism

By **James D. Burrington**



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### ABOUT THE BOOK

*Industrial Catalysis: Chemistry and Mechanism* is an essential textbook for upper-level undergraduate and graduate students with an interest in the underlying concepts of catalysis, industrial organic chemistry and the mechanism of catalysis. For undergraduates it provides an introduction to the basic catalytic principles and industrial processes. Graduate students will find that the book gives an in-depth understanding of the mechanism of catalytic surface intermediates and the practice of modern catalysis research. For the post graduate and industrial chemist involved in catalysis research, it is a valuable reference text as a compendium of mechanisms by which major industrial catalytic processes operate.

This unique book fills the gap between basic organic chemistry and fundamental chemical principles of catalysis, and is a must read for students and researchers in the field.

### READERSHIP

Advanced undergraduate and graduate students in chemistry, chemical and catalysis researchers, and scientists interested in fundamental chemical and mechanistic principles of catalysis.

### CONTENTS

- An Introduction to Industrial Catalysis
- Acid Catalysis
- Oxidation Catalysis
- Polymerization Catalysis
- Reduction/Hydrogenation Catalysis
- Environmental Catalysis
- Catalyst Characterization

## ABOUT THE AUTHOR

**Dr. James Burrington** received his BS degree in chemistry from John Carroll University in 1973, and his Ph.D. in Organic Chemistry from the Massachusetts Institute of Technology in 1977. He joined BP (formerly Standard Oil) in 1977 as a Senior R&D Chemist with assignments in fundamental and exploratory catalysis. He advanced to the position of Research Associate in 1982, Research Supervisor in 1984, and Research Manager in 1988. In 1993, he joined The Lubrizol Corporation in Wickliffe, Ohio, and was promoted to Senior Fellow in 1998, and to Lubrizol Fellow, the highest technical rank in the corporation, in 2006. At Lubrizol he has been responsible for applied research in catalysis, process chemistry and the development of new lubricant additive and performance chemical products.

Dr. Burrington is a Fellow of the American Chemical Society and was awarded the ACS Energy & Fuels Distinguished Researcher Award in Petroleum Chemistry in 2015, being recognized for his original and important inventions and contributions to the research and development closely related to petroleum chemistry. Dr. Burrington is an inventor of 51 US Patents and an author of 45 scientific and technical publications, which span Dr. Burrington's 38-year career in catalysis and process chemistry, fine and specialty chemicals, lubricant and rubber additives, and controlled release technology.

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