



Kinetics of Chemical Reactions

By Guy Marin, Gregory S. Yablonsky

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This systematic presentation covers both experimental and theoretical kinetic methods, as well as fundamental and applied. The identification of dominant reaction paths, reaction intermediates and rate-determining steps allows a quantification of the effects of reaction conditions and catalyst properties, providing guidelines for catalyst optimization. In addition, the form in which the equations are presented allows for their straightforward implementation for scale-up and chemical reactor design purposes. Throughout, the methodologies given are illustrated by many examples.

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Kinetics of Chemical Reactions By Guy Marin, Gregory S. Yablonsky Bibliography

- Sales Rank: #788821 in Books
- Published on: 2011-08-29
- Original language: English
- Number of items: 1
- Dimensions: 9.75" h x 1.06" w x 7.00" l, 2.15 pounds
- Binding: Hardcover
- 446 pages

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Editorial Review

Review

“Finally, this book fulfills its aim to be a systematic presentation of the addressed matter for the broad variety of chemistry lecturers and students, graduate students, physical chemists, chemical engineering students and lecturers, physics students and chemical engineers.” (*Materials and Corrosion*, 1 November 2012)

“It will be most useful to those chemists who have an interest in chemical engineering and/or the kinetics and mechanisms of catalysis within chemical reactors.” (Chemistry World, 2012)

From the Back Cover

The kinetics of chemical reactions studies the progress of a chemical reaction taking account of pressure, temperature, catalysis, reaction components and other influencing factors. It helps with the decoding of the reaction mechanism and therefore the optimization of reaction conditions and allows scale-up and optimal reactor design. This systematic presentation covers all aspects of kinetic methods including experimental and theoretical, as well as fundamental and applied kinetic methods. The identification of dominant reaction paths, reaction intermediates and rate-determining steps allows a quantification of the effects of reaction conditions and catalyst properties, providing guidelines for catalyst optimization. In addition, the form in which the equations are presented allows for their straightforward implementation for scale-up and chemical reactor design purposes. Throughout, the methodologies given are illustrated by many examples and a glossary containing the important terms for this field rounds off the book. This book is aimed at chemistry lecturers and students, graduate students, physical chemists, chemical engineering students and lecturers, physics students and chemical engineers.

About the Author

Professor Guy B. Marin is chair of the Department of Chemical Engineering at Ghent University (Belgium). He received his PhD degree from Ghent University in 1980. He took a position of full professor in 1988 at Eindhoven University of Technology (The Netherlands) where he taught chemical reactors. In 1997 he returned to Ghent as director of the Laboratory for Chemical Technology. He co-authored more than 300 papers in international journals. Professor Marin is editor-in-chief of 'Advances in Chemical Engineering' and co-editor of the Chemical Engineering Journal. Chemical reaction and reactor engineering in general and reaction kinetics in particular are the main leads in his research program.

Professor Gregory S. Yablonsky obtained his academic degrees from the Boreskov Institute of Catalysis (Novosibirsk, Russia). From 1995 until 2007, he worked in the Department of Chemical Engineering at Washington University in St. Louis, USA. Since 2007, he is working at Parks College and in the Department of Chemistry at Saint Louis University. Professor Yablonsky has been a Visiting Professor at several universities, in particular the National University of Singapore and Queen's University of Belfast (N. Ireland, UK). Since 2009, Yablonsky is a Honorary Professor of Ghent University. He has served as organizer and chairman of many international conferences on chemical kinetics, catalysis, and mathematical methods in chemical engineering. He has been involved in theoretical kinetics and heterogeneous catalysis research for over 30 years, and is author of more than 200 papers and six books.

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