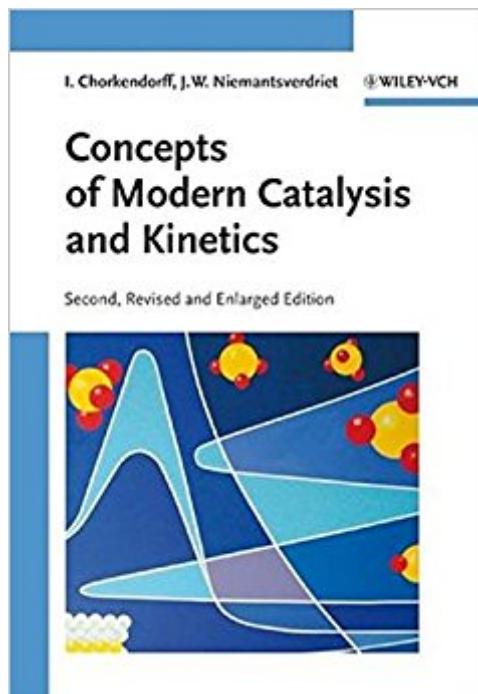


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# Concepts Of Modern Catalysis And Kinetics



## Synopsis

Until now, the literature has offered a rather limited approach to the use of fundamental kinetics and their application to catalytic reactions. Subsequently, this book spans the full range from fundamentals of kinetics and heterogeneous catalysis via modern experimental and theoretical results of model studies to their equivalent large-scale industrial production processes. This second edition includes significant new developments, with all the chapters updated by way of recent examples and relevant new literature. With its focus on practical application, rather than theory, the result is key knowledge for students at technical universities and professionals already working in industry. From Reviews of the First Edition: 'I am impressed by the coverage of the book and it is a valuable addition to the catalysis literature and I highly recommend purchase' (Energy Sources) '...this excellent book is highly recommended to students at technical universities, but also entrants in chemical industry. Furthermore, this informative handbook is also a must for all professionals in the community.' (AFS) 'Overall, this is a valuable book that I will use in teaching undergraduates and postgraduates.' (Angewandte Chemie - I. E.)

## Book Information

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book from these authors will be considered an authoritative piece of work, I definitely support this project and I am looking forward to use the book when published.' - Prof. Dr. D. E. Resasco, University of Oklahoma 'I wholly support the proposed project. The authors are very competent young colleagues and there is a real need for such a textbook' - Prof. Dr. G. Ertl, Fritz-Haber-Institut, Max-Planck-Gesellschaft, Berlin "I am impressed by the coverage of the book and it is a valuable addition to the catalysis literature and I highly recommend purchase" Energy Sources "The book's structure is based on academic courses taught over the years by the two authors. Questions and exercises are offered at the end of the book. Highly recommended." Choice "...this excellent book is highly recommended to students at technical universities, but also entrants in chemical industry. Furthermore, this informative handbook is also a must for all professionals in the community." AFS "The text is well written and easy to follow, with references provided for the reader who wants to know more. The text is enlivened by snippets of information and comment... If you are looking for a good textbook on heterogeneous catalysis, "Concepts of Modern Catalysis and Kinetics" is well worth considering. It is certainly a book I would have liked to have read when I started in catalysis research." Platinum Metals Review "The authors are experienced experts, who have a fundamental understanding of catalysis - from its theoretical-chemical and physical-chemical basics right up to applications in process technology. I wholeheartedly recommend this book to anyone seeking a solid basis in the field of catalysis." Chemie Ingenieur Technik "In summary "Concepts of Modern Catalysis and Kinetics" is a valuable guide to enter and travel the sometimes rather labyrinthine trails in heterogeneous catalysis. " ChemPhysChem "The book is well written and richly illustrated with instructive black and white diagrams. Students, especially those at Eindhoven and Lyngby, will have to read it from cover to cover. More mature readers, such as myself, have the privilege to skip the dry bits on kinetics and focus on the catalysis parts for the sheer excitement of the facts... The book does catalysis justice as a central concept of chemistry." Chemistry & Industry "This book is a thorough and comprehensive introduction to the science and application of heterogeneous catalysis." Applied Organometallic Chemistry "This book will be a valuable addition to many chemistry libraries... For the specialist in heterogeneous catalysis, the book provides a wealth of information regarding both fundamentals and applications." Synthesis

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specialists, with a very long record of original top-quality work and an international reputation. A book from these authors will be considered an authoritative piece of work, I definitely support this project and I am looking forward to use the book when published." •Prof. Dr. D. E. Resasco, University of Oklahoma "I wholly support the proposed project. The authors are very competent young colleagues and there is a real need for such a textbook." •Prof. Dr. G. Ertl, Fritz-Haber-Institut, Max-Planck-Gesellschaft, Berlin

It's an okay book. It does not go into detail for a lot of things that I wish there was more info on, but it is concisely written and one of the clearest books I've ever had

An excellent book about heterogeneous catalysis, written to readers that want to understand the theory and kinetics of heterogeneous catalytic processes. I think this book is specially useful for computational chemists that aim to use results of quantum chemical calculations to predict reaction rate.

The kinetics section is just OK... It has the usual equations but does not emphasize that rate order must be determined by experiment. Does not give an elaborated physical picture for the Arrhenius equation.

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