



Reaction Kinetics (Oxford Science Publications)

By Michael J. Pilling, Paul W. Seakins

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Reaction kinetics is central to the study of chemistry. Kinetic studies can provide both an insight into the detailed molecular mechanisms of elementary reactions and practical information which can be used to unravel complex chemical problems such as the formation of the ozone hole. This modern, accessible text begins with an introduction to the importance and relevance of chemical kinetics, and then describes and explains the experimental and theoretical studies of elementary reactions. The applications of kinetics to complex phenomena such as chain reactions and photochemistry are then described, emphasizing how these systems are built up of individual elementary reactions. Examples from the fields of chain reactions, atmospheric chemistry, explosions, oscillating reactions, and photochemistry are then explored in greater detail. Worked examples and problems throughout the text allow students to obtain a detailed understanding of the field. Boxed inserts explain advanced topics more clearly.

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Review

"Best kinetics book I have ever seen in years. It is modern, rigorous and interesting."--Sidney Toby, *Rutgers University--Piscataway*

"This book will fill a real need for students of kinetics, be they formally enrolled in a course or just interested in how measurements, mathematics, and dynamics come together in experimental design; they will be able to access this material through its thorough development. The book replaces other kinetics works because it truly covers modern kinetics logically, carefully, mathematically and succinctly. -- *Choice*

About the Author

M J. Pilling and Paul W. Seakins are both at University of Leeds.

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