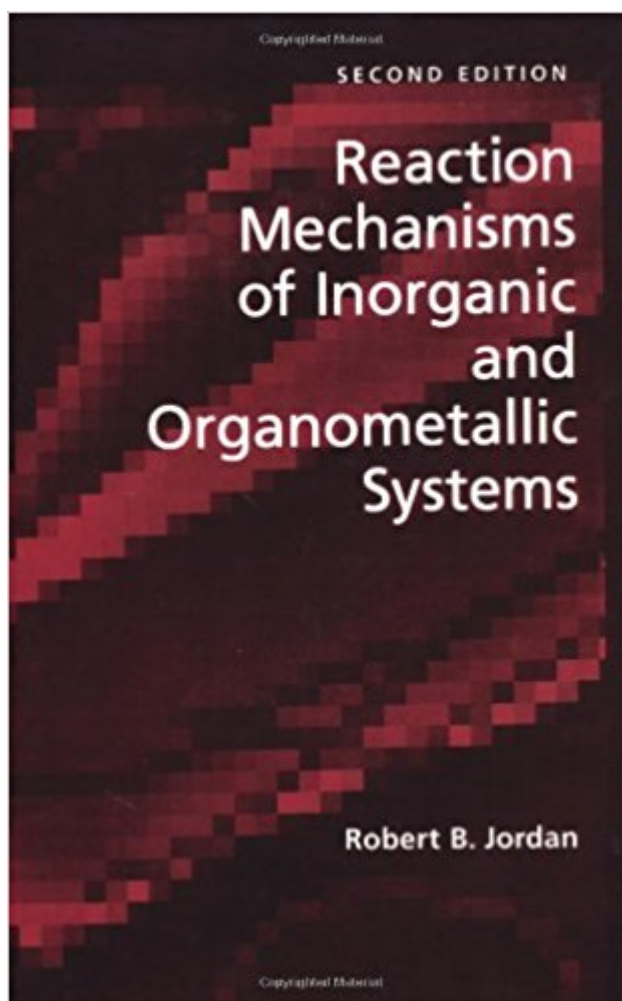


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# Reaction Mechanisms Of Inorganic And Organometallic Systems (Topics In Inorganic Chemistry)



## Synopsis

Ideal for one semester courses at the advanced undergraduate or graduate level, the second edition of *Reaction Mechanisms of Inorganic and Organometallic Systems* helps students develop both an appreciation of and skepticism about mechanistic studies. This new edition simplifies the first two chapters, which concentrate on the real world of collecting and interpreting kinetic data, to make them easily understandable to students with minimal exposure to the basics of kinetics. Subsequent chapters cover ligand substitution mechanisms, stereochemical change and fluxional processes, mechanisms of organometallic reactions, electron transfer reactions, inorganic and organometallic photochemistry, selected bioinorganic systems, and experimental methods. The second edition adds sections on the numerical solution of differential equations; the isomerization of square planar systems; the aqueous and bioinorganic chemistry of nitric oxide; and a new chapter on experimental methods. *Reaction Mechanisms of Inorganic and Organometallic Systems* also offers unique coverage of several topics, including extensive information on solvent exchange reactions; mechanistic interpretation of activation volumes; application of orbital symmetry rules to fluxional organometallic systems; C-H bond activation mechanisms; intervalence electron transfer and its relationship to bridged electron transfer; and flash photolysis applications in photochemistry. The text includes over 900 references to original literature (updated through 1996) and provides sample problems for each chapter.

## Book Information

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## Customer Reviews

"Second edition is nice update of the first....A tremendous resource."--Rachel Narehood Austin, Bates College  
Praise for the previous edition: "This is an invaluable book for advanced inorganic or physical chemistry courses on inorganic mechanisms, and obligatory for any higher education chemistry library. It is also an extremely useful addition to a personal library for researchers who are involved in mechanistic chemistry, whether they class themselves as inorganic or as physical chemists." --Times Higher Education Supplement  
Praise for the previous edition: "The choice of topics, the balance between organometallic and more classical systems, the thoughtful analysis of current research areas where generalities are difficult to sustain, and the inclusion of relevant data from many different types of experiments are especially noteworthy." --Journal of the American Chemical Society

Robert B. Jordan is at University of Alberta.

Good book

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