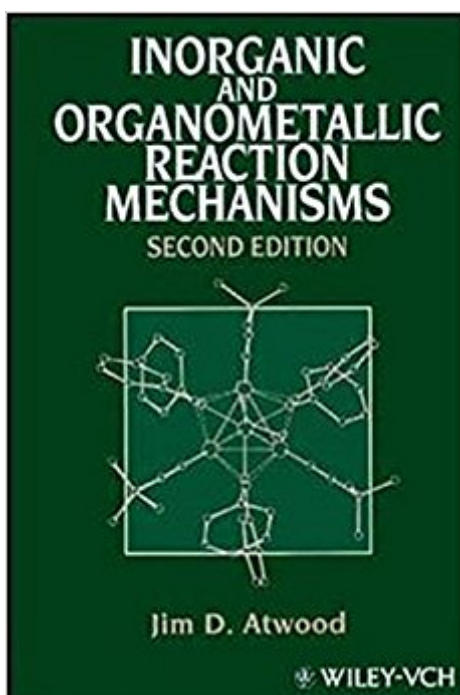


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# Inorganic And Organometallic Reaction Mechanisms



## Synopsis

This title provides detailed coverage of classic inorganic reaction mechanisms and organometallic reaction mechanisms. The coverage of the mechanisms expected for reactions of transition metal complex includes the kinetic studies used to differentiate possible mechanisms. This combination of coordination complexes and organometallic complexes is unique to this title. Describing how transition metal complexes react and the type of data used to determine how complexes react, this work provides excellent introductions, extensive problems, and thought-provoking summaries in every chapter. Complete with excellent references, this second edition has been updated with new problems and increased information on NMR techniques, dissociative reactions of square-planar complexes, seventeen-electron complexes, organometallic transfer, and oxidative-addition and reductive-elimination reactions. The only current text on inorganic mechanisms, this book is ideal for students and chemists who deal with inorganic and organometallic reagents.

## Book Information

Hardcover: 328 pages

Publisher: Wiley-VCH; 2 edition (February 18, 1997)

Language: English

ISBN-10: 0471188972

ISBN-13: 978-0471188971

Product Dimensions: 6.3 x 0.9 x 9.4 inches

Shipping Weight: 1.3 pounds (View shipping rates and policies)

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Inorganic and Organometallic Reaction Mechanisms Second Edition Jim D. Atwood Inorganic and Organometallic Reaction Mechanisms, Second Edition covers both classic inorganic reaction mechanisms and organometallic reaction mechanisms. Introductions are provided for each group of reaction mechanisms, and extensive problems (many with references) are offered at the end of each chapter, as are summaries that provide students with thoughtful overviews. In this new edition, references have been updated and new problems have been added to each chapter. Information on NMR techniques and other newer techniques, such as time-resolved infrared spectroscopy, has

been added to the chapter on chemical kinetics. The chapter describing ligand substitution reactions on square planar complexes now includes a section on dissociative reactions of square-planar complexes. Significant material on reactions of seventeen electron complexes has been added to the coverage of organometallic substitution reactions, while the material on oxidative-addition and reductive-elimination reactions has been extensively rewritten. The chapter on inorganic electron transfer through inner and outer sphere mechanisms has been augmented by a substantial section on organometallic electron transfer. This book is intended for advanced undergraduate and graduate students and instructors in inorganic and organometallic chemistry. It will also be a useful tutorial for organic chemists who use organometallic reagents for syntheses. Also available Kinetics and Mechanism of Reactions of Transition Metal Complexes Second, Thoroughly Revised Edition R.G. Wilkins Hardcover. Softcover. Organometallics: A Concise Introduction Second, Revised Edition Ch. Elschenbroich and A. Salzer Hardcover. Softcover. Transition Metal Chemistry: The Valence Shell in d-Block Chemistry M. Gerloch and E.C. Constable Hardcover. Softcover. Electron Transfer and Radical Processes in Transition-Metal Chemistry D. Astruc Hardcover.

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