

Reaction Mechanisms Of Inorganic And Organometallic Systems Topics In Inorganic Chemistry

This go-to text provides information and insight into physical inorganic chemistry essential to our understanding of chemical reactions on the molecular level. One of the only books in the field of inorganic physical chemistry with an emphasis on mechanisms, it features contributors at the forefront of research in their particular fields. This essential text discusses the latest developments in a number of topics currently among the most debated and researched in the world of chemistry, related to the future of solar energy, hydrogen energy, biorenewables, catalysis, environment, atmosphere, and human health.

Reaction Mechanisms of Inorganic and Organometallic Systems helps students develop both an appreciation of and skepticism about mechanistic studies.

This series, Mechanisms of Inorganic and Organometallic Reactions, provides an ongoing critical review of the published literature concerned with the mechanisms of reactions of inorganic and organometallic compounds. Emphasis is on

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reactions in solution, although solid state and gas phase studies are included where they provide mechanistic insight. The sixth volume deals with papers published during the period January 1987 through June 1988 inclusive, together with some earlier work where it is appropriate to make comparisons. Coverage spans the whole area as comprehensively as practically possible, and the cited references are chosen for their relevance to the elucidation of reaction mechanisms. The now familiar format of earlier volumes has been maintained to facilitate tracing progress in a particular topic over several volumes, but some small changes have been made. Reflecting the amount of mechanistic work associated with ligand reactivity, and the growing importance of this area, Chapter 12 has been renamed and enlarged to bring together information on both coordination and organometallic systems involving ligand reactions. Numerical data are usually reported in the units used by the original authors, except when making comparisons and conversion to common units is necessary.

During recent years a high level of interest has been maintained in the kinetics and mechanisms of inorganic compounds in solution, and there has also been a notable upsurge of literature concerned with reaction mechanisms of organo transition metal compounds. The reviews of the primary literature

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previously provided by "Inorganic Reaction Mechanisms" (Royal Society of Chemistry) and "Reaction Mechanisms in Inorganic Chemistry" in "MTP International Reviews of Science" (Butterworths) continue to be of considerable value to those concerned with mechanistic studies, and it is unfortunate they are no longer published. The objective of the present series is to provide a continuing critical review of literature dealing with mechanisms of inorganic and organometallic reactions in solution. The scope of potentially relevant work is very large, particularly in the field of organotransition metal chemistry, and papers for inclusion have been chosen that specifically probe mechanistic aspects, rather than those of a preparative nature. This volume covers the literature published during the period July 1979 to December 1980 inclusive. Material is arranged basically by type of reaction and type of compound along generally accepted lines. Numerical data are usually reported in the units used by the original authors, though the units of some results have been converted in order to make comparisons.

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

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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.

The Advances in Inorganic Chemistry presents

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timely and informative summaries of the current progress in a variety of subject areas within inorganic chemistry, ranging from bio-inorganic to solid state studies. This acclaimed serial features reviews written by experts in the field and serves as an indispensable reference to advanced researchers. Each volume contains an index, and each chapter is fully referenced. The Advances in Inorganic Chemistry presents timely and informative summaries of the current progress in a variety of subject areas within inorganic chemistry, ranging from bio-inorganic to solid state studies

The Advances in Inorganic Chemistry series presents timely and informative summaries of the current progress in a variety of subject areas within inorganic chemistry ranging from bio-inorganic to solid state studies. This acclaimed serial features reviews written by experts in the area and is an indispensable reference to advanced researchers. Each volume of Advances in Inorganic Chemistry contains an index, and each chapter is fully referenced. This, the 54th volume in the series continues this tradition providing comprehensive reviews by leading experts in the field with the focus on inorganic and bioinorganic reaction mechanisms. The latest volume in this highly successful series is dedicated to inorganic and bioinorganic reaction mechanisms Comprehensive reviews written by leading experts in the field

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The effect of pressure upon the rate of a chemical reaction in solution is attributed to a volume change which occurs in the activation step of that reaction. If the change in volume on activation is negative, then the reaction is accelerated by an increase of pressure; if the volume change is positive, then the reaction is retarded by an increase of pressure. This review aims to show how such volume changes can be interpreted to yield information on the detailed molecular rearrangements which make up the reaction mechanisms of inorganic complexes.

This text provides a general background as a course module in the area of inorganic reaction mechanisms, suitable for advanced undergraduate and postgraduate study and/or research. The topic has important research applications in the metallurgical industry and is of interest in the science of biochemistry, biology, organic, inorganic and bioinorganic chemistry. In addition to coverage of substitution reactions in four-, five- and six-coordinate complexes, the book contains further chapters devoted to isomerization and racemization reactions, to the general field of redox reactions, and to the reactions of coordinated ligands. It is relevant in other fields such as organic, bioinorganic and biological chemistry, providing a bridge to organic reaction mechanisms. The book also contains a chapter on the kinetic background to the subject with many illustrative examples which should prove useful to those beginning research. Provides a general background as a course module in the area of inorganic reaction mechanisms, which has important research applications in the metallurgical industry. Contains further chapters devoted to isomerization and racemization reactions, to the general field of redox reactions, and to the reactions of coordinated ligands.

This book offers detailed coverage of classic inorganic and organometallic reaction mechanisms, including the kinetic

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studies used to differentiate possible mechanisms.

Pedagogically arranged, the text has an organization useful for a linear progression through the text as needed in course teaching, although each chapter is additionally sufficient to be used independently in case of researchers needing a ready reference. In this new edition, over 20 years after its predecessor, the author greatly expands the topics, thoroughly updates the literature references, and improves the end-of-chapter questions.

Inorganic chemistry is the study of all chemical compounds except those containing carbon, which is the field of organic chemistry. There is some overlap since both inorganic and organic chemists traditionally study organometallic compounds. Inorganic chemistry has very important ramifications for industry. Current research interests in inorganic chemistry include the discovery of new catalysts, superconductors, and drugs to combat disease. This new volume covers a diverse collection of topics in the field, including new methods to detect unlabeled particles, measurement studies, and more.

Specialist Periodical Reports provide systematic and detailed review coverage of progress in the major areas of chemical research. Written by experts in their specialist fields the series creates a unique service for the active research chemist, supplying regular critical in-depth accounts of progress in particular areas of chemistry. For over 80 years the Royal Society of Chemistry and its predecessor, the Chemical Society, have been publishing reports charting developments in chemistry, which originally took the form of Annual Reports. However, by 1967 the whole spectrum of chemistry could no longer be contained within one volume and the series Specialist Periodical Reports was born. The Annual Reports themselves still existed but were divided into two, and subsequently three, volumes covering Inorganic, Organic and

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Physical Chemistry. For more general coverage of the highlights in chemistry they remain a 'must'. Since that time the SPR series has altered according to the fluctuating degree of activity in various fields of chemistry. Some titles have remained unchanged, while others have altered their emphasis along with their titles; some have been combined under a new name whereas others have had to be discontinued. The current list of Specialist Periodical Reports can be seen on the inside flap of this volume.

The book "Chemical Reactions in Inorganic Chemistry" describes an overview of chemical reagents used in inorganic chemical reactions for the synthesis of different compounds including coordination, transition metal, organometallic, cluster, bioinorganic, and solid-state compounds. This book will be helpful for the graduate students, teachers, and researchers, and chemistry professionals who are interested to fortify and expand their knowledge about sol-gel preparation and application, porphyrin and phthalocyanine, carbon nanotube nanohybrids, triple bond between arsenic and group 13 elements, and N-heterocyclic carbene and its heavier analogues. It comprises a total of five chapters from multiple contributors around the world including China, India, and Taiwan.

Involved as it is with 95% of the periodic table, inorganic chemistry is one of the foundational subjects of scientific study. Inorganic catalysts are used in crucial industrial processes and the field, to a significant extent, also forms the basis of nanotechnology. Unfortunately, the subject is not a popular one for undergraduates. This book aims to take a step to change this state of affairs by presenting a mechanistic, logical introduction to the subject. Organic teaching places heavy emphasis on reaction mechanisms - "arrow-pushing" - and the authors of this book have found that a mechanistic approach works just as well for elementary

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inorganic chemistry. As opposed to listening to formal lectures or learning the material by heart, by teaching students to recognize common inorganic species as electrophiles and nucleophiles, coupled with organic-style arrow-pushing, this book serves as a gentle and stimulating introduction to inorganic chemistry, providing students with the knowledge and opportunity to solve inorganic reaction mechanisms. • The first book to apply the arrow-pushing method to inorganic chemistry teaching • With the reaction mechanisms approach ("arrow-pushing"), students will no longer have to rely on memorization as a device for learning this subject, but will instead have a logical foundation for this area of study • Teaches students to recognize common inorganic species as electrophiles and nucleophiles, coupled with organic-style arrow-pushing • Provides a degree of integration with what students learn in organic chemistry, facilitating learning of this subject • Serves as an invaluable companion to any introductory inorganic chemistry textbook

Advances in Inorganic Chemistry and Radiochemistry

This book has been designed to cover the syllabus of Inorganic Chemistry required for the B.Sc./B.Sc. Hons./M.Sc. students of the various Universities. I have compelled all the questions asked so far in different universities.. I have arranged the subject matter in a continuous manner. Special emphasis has been laid on fundamental concept of the topics. Offers complete coverage of basic inorganic reaction mechanisms that brings readers up to date on developments in the field. Mechanistic concepts introduced will provoke consideration of larger

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categories of inorganic reactions without the need for expert knowledge. Theoretical and experimental methods are described, as well as the possibilities offered by each technique, the kind of information obtained, the limitations of each, and methods for handling experimental data. Carefully clarifies the relationship between mechanism and kinetics, and corresponding concepts. Features a chapter on inorganic photochemistry and the related energy conversion--a branch of inorganic reaction mechanisms that is making rapid advances.

An advanced-level textbook of inorganic chemistry for the graduate (B.Sc) and postgraduate (M.Sc) students of Indian and foreign universities. This book is a part of four volume series, entitled "A Textbook of Inorganic Chemistry – Volume I, II, III, IV".

CONTENTS: Chapter 1. Stereochemistry and Bonding in Main Group Compounds: VSEPR theory, $d^2 - p^2$ bonds, Bent rule and energetic of hybridization. Chapter 2. Metal-Ligand Equilibria in Solution: Stepwise and overall formation constants and their interactions, Trends in stepwise constants, Factors affecting stability of metal complexes with reference to the nature of metal ion and ligand, Chelate effect and its thermodynamic origin, Determination of binary formation constants by pH-metry and spectrophotometry. Chapter 3. Reaction Mechanism of Transition Metal Complexes – I: Inert and labile complexes, Mechanisms for ligand

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replacement reactions, Formation of complexes from aquo ions, Ligand displacement reactions in octahedral complexes- acid hydrolysis, Base hydrolysis, Racemization of tris chelate complexes, Electrophilic attack on ligands. Chapter 4. Reaction Mechanism of Transition Metal Complexes – II: Mechanism of ligand displacement reactions in square planar complexes, The trans effect, Theories of trans effect, Mechanism of electron transfer reactions – types; Outer sphere electron transfer mechanism and inner sphere electron transfer mechanism, Electron exchange. Chapter 5. Isopoly and Heteropoly Acids and Salts: Isopoly and Heteropoly acids and salts of Mo and W: structures of isopoly and heteropoly anions. Chapter 6. Crystal Structures: Structures of some binary and ternary compounds such as fluorite, antiferite, rutile, antiferite, cristobalite, layer lattices- CdI₂, BiI₃; ReO₃, Mn₂O₃, corundum, perovskite, Ilmenite and Calcite. Chapter 7. Metal-Ligand Bonding: Limitation of crystal field theory, Molecular orbital theory, octahedral, tetrahedral or square planar complexes, π -bonding and molecular orbital theory. Chapter 8. Electronic Spectra of Transition Metal Complexes: Spectroscopic ground states, Correlation and spin-orbit coupling in free ions for 1st series of transition metals, Orgel and Tanabe-Sugano diagrams for transition metal complexes (d¹ – d⁹ states), Calculation of Dq, B and β parameters, Effect of

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distortion on the d-orbital energy levels, Structural evidence from electronic spectrum, John-Teller effect, Spectrochemical and nephelauxetic series, Charge transfer spectra, Electronic spectra of molecular addition compounds. Chapter 9. Magnetic Properties of Transition Metal Complexes: Elementary theory of magneto-chemistry, Guoy's method for determination of magnetic susceptibility, Calculation of magnetic moments, Magnetic properties of free ions, Orbital contribution, effect of ligand-field, Application of magneto-chemistry in structure determination, Magnetic exchange coupling and spin state cross over. Chapter 10. Metal Clusters: Structure and bonding in higher boranes, Wade's rules, Carboranes, Metal Carbonyl Clusters - Low Nuclearity Carbonyl Clusters, Total Electron Count (TEC). Chapter 11. Metal- π Complexes: Metal carbonyls, structure and bonding, Vibrational spectra of metal carbonyls for bonding and structure elucidation, Important reactions of metal carbonyls; Preparation, bonding, structure and important reactions of transition metal nitrosyl, dinitrogen and dioxygen complexes; Tertiary phosphine as ligand. Kinetics of Inorganic Reactions provides a comprehensive account of the mechanisms of inorganic reaction. The book is comprised of 15 chapters that deal with the two main fields of inorganic reaction, the homogeneous gas-phase reactions and solution reactions. The first chapter of

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the text provides an introduction to some of the basic concepts in inorganic reaction, which include the mechanisms of a reaction, reactions in different phases, and the feasibilities of a reaction. Next, the book details the experimental techniques and treatment of data. The next series of chapters talks about gas-phase reactions. The book also dedicates a chapter in covering various types of reactions, including isotopic reaction and redox reaction. Chapters 12 to 14 deal with substitution reactions, while Chapter 15 talks about acid-base reactions. The text will be most useful to chemists and chemical engineers, particularly those who deal with inorganic chemistry.

In this monograph, an attempt has been made to illustrate the role of metal ions in a number of important organic and biochemical reactions. In addition, attention, has been paid to clock and oscillatory reactions which are particularly suitable for generating interest and enthusiasm in schools. The serious study of the reaction mechanisms of transition metal complexes began some five decades ago. Work was initiated in the United States and Great Britain; the pioneers of that era were, in alphabetical order, F. Basolo, R. E. Connick, I. O. Edwards, C. S. Garner, G. P. Haight, W. C. E. Higginson, E. I. King, R. G. Pearson, H. Taube, M. I. Tobe, and R. G. Wilkins. A larger community of research scientists then entered the field, many of

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them students of those just mentioned. Interest spread elsewhere as well, principally to Asia, Canada, and Europe. Before long, the results of individual studies were being consolidated into models, many of which traced their origins to the better-established field of mechanistic organic chemistry. For a time this sufficed, but major revisions and new assignments of mechanism became necessary for both ligand substitution and oxidation-reduction reactions. Mechanistic inorganic chemistry thus took on a shape of its own. This process has brought us to the present time. Interests have expanded both to include new and more complex species (e.g., metalloproteins) and a wealth of new experimental techniques that have developed mechanisms in ever-finer detail. This is the story the author tells, and in so doing he weaves in the identities of the investigators with the story he has to tell. This makes an enjoyable as well as informative reading.

This comprehensive series of volumes on inorganic chemistry provides inorganic chemists with a forum for critical, authoritative evaluations of advances in every area of the discipline. Every volume reports recent progress with a significant, up-to-date selection of papers by internationally recognized researchers, complemented by detailed discussions and complete documentation. Each volume features a complete subject index and the series includes a

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cumulative index as well.

The stability of complexes in solution; Stereochemical non-rigidity; Substitution reactions of the light elements; Oxidative addition; Inorganic photochemistry; Mechanism and steric course of octahedral substitution; Mechanism of square-planar substitution; Rates and mechanisms of Oxidation-reduction reaction of metal ion complexes; Nucleophilic displacement at some main group elements.

Reaction Mechanisms of Inorganic and Organometallic Systems Oxford University Press

The objective of Mechanisms of Inorganic and Organometallic Reactions is to provide an ongoing critical review of the literature concerned with the mechanisms of reactions of inorganic and organometallic compounds. The main focus is on reactions in solution, although solid state and gas phase studies are included where they provide relevant mechanistic insight. Each volume covers an eighteen month literature period, and this, the seventh volume in the series, deals with papers published during July 1988 through December 1989. Where appropriate, there are references to earlier work, and also to specific sections in previous volumes. Coverage continues to span the whole area as comprehensively as possible in each volume, and although it is impossible be absolutely complete, every effort is made to include all the

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important for it to published work that is relevant to the elucidation of reaction mechanisms. Numerical data are reported in the units used by the original authors, and they are only converted to common units when making comparisons. The basic format of earlier volumes is retained to facilitate tracing progress over several years in a particular topic; this can now be done for more than a decade worth of research. In the last volume, ligand reactivity of both coordination and organometallic compounds were brought together in Chapter 12, and, in response to numerous positive comments from readers, this arrangement has been maintained. There have been some similar suggestions about oscillating reactions, and this topic may have a separate section in the next volume.

Advances in Inorganic Chemistry presents timely and informative summaries of the current progress in a variety of subject areas within inorganic chemistry ranging from bio-inorganic to solid state studies. This acclaimed serial features reviews written by experts in the area and is an indispensable reference to advanced researchers. Each volume of Advances in Inorganic Chemistry contains an index, and each chapter is fully referenced. Comprehensive reviews written by leading experts in the field An indispensable reference to advanced researchers Includes 7 contributions covering important advances in inorganic chemistry

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Reaction Mechanisms in Environmental Engineering: Analysis and Prediction describes the principles that govern chemical reactivity and demonstrates how these principles are used to yield more accurate predictions. The book will help users increase accuracy in analyzing and predicting the speed of pollutant conversion in engineered systems, such as water and wastewater treatment plants, or in natural systems, such as lakes and aquifers receiving industrial pollution. Using examples from air, water and soil, the book begins with a clear exposition of the properties of environmental and inorganic organic chemicals that is followed by partitioning and sorption processes and sorption and transformation processes. Kinetic principles are used to calculate or estimate the pollutants' half-lives, while physical-chemical properties of organic pollutants are used to estimate transformation mechanisms and rates. The book emphasizes how to develop an understanding of how physico-chemical and structural properties relate to transformations of organic pollutants. Offers a one-stop source for analyzing and predicting the speed of organic and inorganic reaction mechanisms for air, water and soil Provides the tools and methods for increased accuracy in analyzing and predicting the speed of pollutant conversion in engineered systems Uses kinetic principles and the physical-chemical properties of organic pollutants to estimate transformation mechanisms and rates

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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.

The reading journey of this book starts with very important phenomenon in inorganic chemistry known as the Trans effect. The Trans effect then leads to a very fascinating discovery that changed the whole world. That was the discovery of the anti-cancer drug. The story of its invention is really interesting. This will really trigger the minds of students that how inventions are made. This will show you how one invention leads path to the other. This book introduces the

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work of Nobel Prize winners and scientist who dedicated their whole life for the sake of chemistry. Henry Taube was awarded the Nobel Prize for his work on complexes & outer and inner sphere reaction mechanism. This book introduces his work. Rudolf A. Marcus received Nobel Prize for his work on redox reactions in complexes. This book discusses the basic principles of redox reactions in complexes. Transition metal complexes plays a fundamental role in three important areas. (1) Bioinorganic chemistry (2) Medicinal chemistry (3) Industrial chemistry. The study of the mechanism helps in designing new inorganic materials, new inorganic catalysts, and new inorganic medicines and for understanding the biological processes. This is a simple book discussing basic principles of inorganic reaction mechanisms. Further, we have provided minor information about basic bioinorganic reactions, nuclear reactions and the chain reaction mechanism. The phenomenon such as acid rain has also been discussed. The last chapter classifies the reactions of metal complexes. Hope this book will be useful for science graduates and post graduates and also for the engineering students.

Inorganic Reaction Mechanisms, Volume 70 is the latest volume in the Advances in Inorganic Chemistry series that presents timely summaries of current progress in inorganic chemistry, ranging from bio-inorganic to solid state studies. Topics covered in this updated volume include The Kinetics and Mechanism of Complex Redox Reactions in Aqueous Solution: The Tools of the Trade, O-O Bond Activation in Cu and Fe-Based Coordination Complexes: Breaking it Makes the Difference, η^5 -Nitrido Diiron Phthalocyanine and Porphyrin Complexes: Unusual Structures With Interesting Catalytic Properties, and The Role of Nonheme Transition Metal-Oxo, -Peroxo and -Superoxo Intermediates in Enzyme Catalysis and Reactions of Bioinspired Complexes. This acclaimed

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serial features reviews written by experts in the field, serving as an indispensable reference to advanced researchers. Each volume contains an index and chapters are fully referenced. Features comprehensive reviews on the latest developments in inorganic reaction mechanisms, a subfield of inorganic chemistry Includes contributions from leading experts in the field of inorganic reaction mechanisms Serves as an indispensable reference to advanced researchers in inorganic reaction mechanisms

The purpose of this series is to provide a continuing critical review of the literature concerned with mechanistic aspects of inorganic and organo metallic reactions in solution, with coverage being complete in each volume. The papers discussed are selected on the basis of relevance to the elucidation of reaction mechanisms and many include results of a nonkinetic nature when useful mechanistic information can be deduced. The period of literature covered by this volume is July 1982 through December 1983, and in some instances papers not available for inclusion in the previous volume are also included. Numerical results are usually reported in the units used by the original authors, except where data from different papers are compared and conversion to common units is necessary. As in previous volumes material included covers the major areas of redox processes, reactions of the nonmetallic elements, reaction of inert and labile metal complexes and the reactions of organometallic compounds. While maintaining the space devoted to other areas, that given to the nonmetallic elements has been increased. In recognition of the increasing importance of the determination of volumes of activation in understanding the mechanisms of both inorganic and organometallic reactions a special reference section giving tabulated ΔG^\ddagger values has been included and this extensive compilation will be updated in future volumes.

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