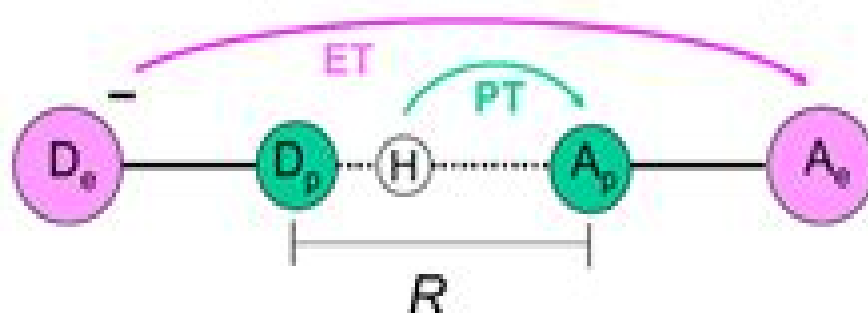


Theory of Proton-Coupled Electron Transfer

Sharon Hammes-Schiffer
Pennsylvania State University



Note: Much of this information, along with more details, additional rate constant expressions, and full references to the original papers, is available in the following JPC Feature Article:

Hammes-Schiffer and Soudackov, JPC B **112**, 14108 (2008)

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Electron Transfer Volume 1

J. A. McCleverty, T.J. Meyer



Electron Transfer Volume 1:

The Ocean, Volume 1 Herve Claustre, Carolyn Scheurle, Laura Lorenzoni, Sanae Chiba, Emily King, 2023-07-25 The ocean was the origin of life on earth billions of years ago and it is vital for the future of humanity It is vast deep harsh and somehow rebellious to uncover its secrets and hence there is much that is unexplored and misunderstood Scientists need to study the ocean to better understand its functioning and properties as well as how they shape our environment and impact us For example do you know what the role of the ocean is on weather and climate There still remains so much to explore in ocean biodiversity and the diverse resources that can be found for example fish stocks bio molecules and also minerals oil and gas How can we make sure that our use of these resources is done sustainably and how can we minimize our impacts e g pollution acidification on the ocean as our human population increases In this collection of Frontiers for Young Minds scientists from various disciplines in oceanography share their knowledge and motivations give insights in innovative tools and recent discoveries to better understand this ocean The collection will target a large range of oceanic environments from the open ocean to the coast the surface to the abysses also including specific areas like coral reefs or sea ice environments It will cover marine disciplines that range from physics to chemistry from biology to ecology and from economy to conservation and policies It will address innovative tools and methods that are used to observe and characterize oceanic properties and features ships and satellites the highly diverse variety of robots as well as genomics or artificial intelligence Finally it will encompass a great variety of scales ranging from the diel to geological time scales and from local regional to global scales and also from the tiniest cells to the biggest living animals on our planet The United Nations have declared the 2021-2030 period as the Decade of Ocean Science for Sustainable Development stressing the urgent need to approach fundamental issues related to the ocean and the future of humanity on well sounded scientific grounds and knowledge This Ocean collection aims to provide information to young readers that will help them to increase their understanding of the ocean and its central role in nature and our lives We hope to empower them to make informed decisions in these challenging times and to engage to protect study and enjoy its richness

Electron Transfer Joshua Jortner, M. Bixon, 2009-09-09 an integrated approach to electron transfer phenomena This two part stand alone volume in the prestigious Advances in Chemical Physics series provides the most comprehensive overview of electron transfer science today It draws on cutting edge research from diverse areas of chemistry physics and biology covering the most recent developments in the field and pointing to important future trends This initial volume includes A historical perspective spanning five decades A review of concepts problems and ideas in current research Electron transfer in isolated molecules and in clusters General theory including useful algorithms Spectra and electron transfer kinetics in bridged compounds The second volume covers solvent control ultrafast electron transfer and coherence effects molecular electronics electron transfer and chemistry and biomolecules Electron transfer science has seen tremendous progress in recent years Technological innovations most notably the advent of femtosecond

lasers now permit the real time investigation of intramolecular and intermolecular electron transfer processes on a time scale of nuclear motion New scientific information abounds illuminating the processes of energy acquisition storage and disposal in large molecules clusters condensed phase and biophysical systems Electron Transfer From Isolated Molecules to Biomolecules is the first book devoted to the exciting work being done in nonradiative electron transfer dynamics today This two part edited volume emphasizes the interdisciplinary nature of the field bringing together the contributions of pioneers in chemistry physics and biology Both theoretical and experimental topics are featured The authors describe modern approaches to the exploration of different systems including supersonic beam techniques femtosecond laser spectroscopy chemical syntheses and methods in genetic and chemical engineering They examine applications in such areas as supersonic jets solvents electrodes semi conductors respiratory and enzymatic protein systems photosynthesis and more They also relate electron transfer and radiationless transitions theory to pertinent physical phenomena and provide a conceptual framework for the different processes Complete with over two hundred illustrations Part One reviews developments in the field since its inception fifty years ago and discusses electron transfer phenomena in both isolated molecules and in clusters It outlines the general theory exploring areas of the control of kinetics structure function relationships fluctuations coherence and coupling to solvents with complex spectral density in different types of electron transfer processes Timely comprehensive and authoritative Electron Transfer From Isolated Molecules to Biomolecules is an essential resource for physical chemists molecular physicists and researchers working in nonradiative dynamics today

Molecular Technology, Volume 1

Hisashi Yamamoto,Takashi Kato,2018-10-22 Edited by foremost leaders in chemical research together with a number of distinguished international authors this first of four volumes summarizes the most important and promising recent chemical developments in energy science all in one book Interdisciplinary and application oriented this ready reference focuses on chemical methods that deliver practical solutions for energy problems covering new developments in advanced materials for energy conversion semiconductors and much more besides Of great interest to chemists as well as researchers in the fields of energy science in academia and industry Advanced Inorganic Chemistry Vol-1 , CRC Handbook of Organic Photochemistry and Photobiology, Volumes 1 & 2 William M. Horspool,Francesco Lenci,2003-09-29 The second edition of this best selling handbook is bigger more comprehensive and now completely current In addition to thorough updates to the discussions featured in the first edition this edition includes 66 new chapters that reflect recent developments new applications and emerging areas of interest Within the handbook s 145 critically r *Surface and Interface Science, Volumes 1 and 2* Klaus Wandelt,2012-04-16 Covering interface science from a novel surface science perspective this unique handbook offers a comprehensive overview of this burgeoning field Eight topical volumes cover basic concepts and methods elemental and composite surfaces solid gas solid liquid and inorganic biological interfaces as well as applications of surface science in nanotechnology materials science and molecular electronics With its broad scope and clear structure it is ideal as

a reference for scientists in the field as well as an introduction for newcomers Handbook of Fullerene Science and Technology Xing Lu, Takeshi Akasaka, Zdeněk Slanina, 2022-09-24 Nanocarbon chemistry and physics is a fast developing broad research area the Nobel prizes in 1996 and 2010 awarded to two key discoveries in the field and several other nanocarbon achievements of comparable importance Owing to this rapid growth the nanocarbon landscape fundamentally changes every few years creating a need to survey the field on a regular basis to update the books that have become incomplete or even obsolete As such this book focuses on fullerenes and metallofullerenes and also on the related areas of nanotubes and graphenes All the covered research topics provide important fundamental knowledge for the natural sciences but also for applications in molecular electronics superconductivity catalysis photovoltaics and medical diagnostics The current nanocarbon research activities have particularly high application potential in the conversion of solar energy future molecular memories non conventional materials for optoelectronics and new treatments for civilization diseases Offering a truly up to date critical survey of nanocarbon science its concepts and highlights it follows the concept of a handbook it addresses key topics systematically from historical background methodological aspects current important issues and application potential all supplied with extensive referencing With individual chapters written by leading experts with extensive research experience it is a comprehensive reference resource for graduate students and active researchers alike

Dynamics at Solid State Surfaces and Interfaces, Volume 1 Uwe Bovensiepen, Hrvoje Petek, Martin Wolf, 2010-11-29 This two volume work covers ultrafast structural and electronic dynamics of elementary processes at solid surfaces and interfaces presenting the current status of photoinduced processes Providing valuable introductory information for newcomers to this booming field of research it investigates concepts and experiments femtosecond and attosecond time resolved methods as well as frequency domain techniques The whole is rounded off by a look at future developments

Metal Ions in Biological Systems Helmut Sigel, Astrid Sigel, 1994-02-08 This volume is devoted solely to the research area of metalloenzymes involving amino acid residue and related radicals Topics covered include general considerations structure function and engineering of peroxidases and ribonucleotide reductase in mammalian systems **Electrons to Tissues V1** P Dutton, 2012-12-02 Frontiers of Biological Energetics Volume I Electrons to Tissues consists of papers presented at the 1978 International Symposium on Frontiers of Biological Energetics Electrons to Tissues held at the University of Pennsylvania School of Medicine on the occasion of the 65th birthday of Professor Britton Chance and of the 50th anniversary of the Johnson Research Foundation The symposium aims to bring together scientists from many different disciplines to discuss the common problems of biological energetic from different standpoints and from various levels of cellular organization Organized into three parts the book begins with a discussion on the electrochemical interactions It then continues to describe the electrons protons and energy Lastly the book presents new instrumental approaches to cellular biophysics

Recent Advances in Analytical Techniques Volume 1 Atta -ur- Rahman, 2017-09-06 Recent Advances in Analytical

Techniques is a collection of updates in techniques used in chemical analysis This volume presents information about a selection of analytical techniques Readers will find information about New methods of sample preparation in biological and environmental analysis Developments in electrochemical sensors In vivo cytometry for detection of tumor cells Flow discharge spectroscopy for depth profile analysis Advances in photodynamic therapy New methods to analyze volatility in alcoholic beverages

Advanced Techniques of Analytical Chemistry: Volume 1 Harish Kumar, 2022-02-25 Advanced Techniques of Analytical Chemistry explains analytical chemistry in an accessible manner for students The book provides basic and practical knowledge that helps the learner to understand the methods used in conducting experiments Readers will understand the key concepts of qualitative and quantitative analysis through easy to read chapters written for chemistry students Volume 1 covers the topic of volumetric analysis in detail Topic wise chapters introduce the reader to volumetric titrations and then explain the range of titration techniques which include aqueous acid base titration non aqueous titration redox titration complexometric titration and some miscellaneous methods like diazotisation titration Kjeldahl s method and the oxygen flask combustion method The combination of basic and advanced methods makes this an ideal textbook for chemistry students at graduate and undergraduate levels as well as an ideal handbook for the laboratory instructor

Energy Research Abstracts , 1987 Comprehensive Coordination Chemistry II J. A. McCleverty, T.J. Meyer, 2003-12-03 Comprehensive Coordination Chemistry II CCC II is the sequel to what has become a classic in the field Comprehensive Coordination Chemistry published in 1987 CCC II builds on the first and surveys new developments authoritatively in over 200 newly commissioned chapters with an emphasis on current trends in biology materials science and other areas of contemporary scientific interest

Protein Electron Transfer Dr Derek Bendall, 2020-07-24 This book is unique the factual content and ideas it expounds are only just beginning to be touched upon in standard texts Protein Electron Transfer is a major collaborative effort by leading experts and explores the molecular basis of the rapidly expanding field

The Chemistry of the Actinide and Transactinide Elements (Set Vol.1-6) L.R. Morss, Norman M. Edelstein, Jean Fuger, 2010-10-21 The fourth edition of The Chemistry of the Actinide and Transactinide Elements comprises all chapters in volumes 1 through 5 of the third edition published in 2006 plus a new volume 6 To remain consistent with the plan of the first edition to provide a comprehensive and uniform treatment of the chemistry of the actinide and transactinide elements for both the nuclear technologist and the inorganic and physical chemist and to be consistent with the maturity of the field the fourth edition is organized in three parts The first group of chapters follows the format of the first and second editions with chapters on individual elements or groups of elements that describe and interpret their chemical properties A chapter on the chemical properties of the transactinide elements follows The second group chapters 15-26 summarizes and correlates physical and chemical properties that are in general unique to the actinide elements because most of these elements contain partially filled shells of 5f electrons whether present as isolated atoms or ions as metals as compounds or as ions in solution The third

group chapters 27-39 focuses on specialized topics that encompass contemporary fields related to actinides in the environment in the human body and in storage or wastes. Two appendices at the end of volume 5 tabulate important nuclear properties of all actinide and transactinide isotopes. Volume 6 Chapters 32 through 39 consists of new chapters that focus on actinide species in the environment, actinide waste forms, nuclear fuels, analytical chemistry of plutonium, actinide chalcogenide and hydrothermal synthesis of actinide compounds. The subject and author indices and list of contributors encompass all six volumes.

Photosynthesis Bibliography volume 1 1966/1970 Zdenek Sesták, J. Catský, 2012-12-06. It is generally accepted that photosynthesis whereby solar energy is transformed into geobiochemical energy is one of the most important processes in the biosphere. When we realize that the human population most of which is starving will double in 20-30 years and that photosynthesis is in practice the only source, direct or indirect, of food not only for men but for all living beings, its importance becomes even plainer. This fact was recognized from the outset of the International Biological Programme when photosynthesis was selected as one of the principal problems to be concentrated on. The significance of the IBP in initiating a broader based approach and worldwide collaboration need not be emphasized here; it is merely necessary to consider the rapid increase in the number of papers on photosynthesis since its inception. It is of fundamental importance for scientists working on photosynthesis to get information on what has been done in recent years in this discipline. Thus as complete as possible a bibliography is badly needed. The complexity of this problem requires also that the progress of ecology, chemistry and physics as far as they concern photosynthesis be followed. Such a bibliography covering at least the last ten years will be indispensable for final synthesis of the results of the IBP photosynthetic programme.

Molecular Devices and Machines Vincenzo Balzani, Margherita Venturi, Alberto Credi, 2006-03-06. The miniaturization of bulky devices and machines is a process that confronts us on a daily basis. However, nanoscale machines with varied and novel characteristics may also result from the enlargement of extremely small building blocks, namely individual molecules. This bottom-up approach to nanotechnology is already being pursued in information technology with many other branches about to follow. Written by a team of experienced authors headed by Vincenzo Balzani, one of the pioneers in the development of molecular machines, covers such diverse aspects as sensors, memory components, solar energy conversion, biomolecules as molecular machines and much more. Presented in a lucid style and didactically structured with both the expert and the newcomer in mind. Includes a glossary of terms and numerous references to the recent literature. Be among the first to explore the fascinating possibilities of this future-oriented technology. A must have for every chemist and materials scientist with an interest in nanotechnology.

Scientific and Technical Aerospace Reports, 1995. Lists citations with abstracts for aerospace-related reports obtained from world-wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database.

Mechanisms of Inorganic and Organometallic Reactions M.V. Twigg, 2013-11-11. The purpose of this series is to provide a continuing critical review of the literature concerned with

mechanistic aspects of inorganic and organometallic 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 ΔH^\ddagger values has been included and this extensive compilation will be updated in future volumes.

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