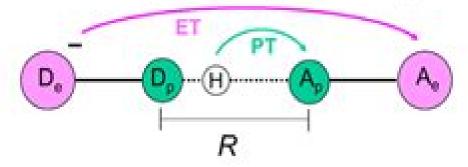
Theory of Proton-Coupled Electron Transfer

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

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describe the electrons protons and energy Lastly the book presents new instrumental approaches to cellular biophysics 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 **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 expan Selected Scientific Papers (In 2 Volumes) - Volume 1 Barclay Kamb, Linda Pauling Kamb, Carl Alexander Kamb, Peter Jeffress Pauling, Linus Pauling Jr, 2001-11-02 Linus Pauling wrote a stellar series of over 800 scientific papers spanning an amazing range of fields some of which he himself initiated This book is a selection of the most important of his writings in the fields of quantum mechanics chemical bonding covalent ionic metallic and hydrogen bonding molecular rotation and entropy protein structure hemoglobin molecular disease molecular evolution the antibody mechanism the molecular basis of anesthesia orthomolecular medicine radiation chemistry biology and nuclear structure Through these papers the reader gets a fresh unfiltered view of the genius of Pauling's many contributions to chemistry chemical physics molecular biology and Mechanisms of Inorganic and Organometallic Reactions M.V. Twigg, 2013-11-11 The purpose of this molecular medicine 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

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