1. Record Nr. UNINA9910830414403321

Titolo	Electron transfer- from isolated molecules to biomolecules . Part 1 [[electronic resource] /] / edited by Joshua Jortner and M. Bixon ; series editors, I. Prigogine, Stuart A. Rice
Pubbl/distr/stampa	New York, : J. Wiley, c1999
ISBN	1-282-68199-0 9786612681998 0-470-14165-4 0-470-14218-9
Descrizione fisica	1 online resource (758 p.)
Collana	Advances in chemical physics ; ; v. 106/1
Altri autori (Persone)	JortnerJoshua BixonM PrigogineI (Ilya) RiceStuart Alan <1932->
Disciplina	539.72112 541.305 541/.08
Soggetti	Charge exchange Charge transfer Charge transfer in biology Electron donor-acceptor complexes Molecular dynamics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and indexes.
Nota di contenuto	ELECTRON TRANSFER FROM ISOLATED MOLECULES TO BIOMOLECULES; CONTENTS TO VOLUME 106; ELECTRON TRANSFER PAST AND FUTURE; ELECTRON TRANSFER REACTIONS IN SOLUTION: A HISTORICAL PERSPECTIVE; ELECTRON TRANSFER-FROM ISOLATED MOLECULES TO BIOMOLECULES; CHARGE TRANSFER IN BICHROMOPHORIC MOLECULES IN THE GAS PHASE; LONG-RANGE CHARGE SEPARATION IN SOLVENT-FREE DONOR-BRIDGE-ACCEPTOR SYSTEMS; ELECTRON TRANSFER AND CHARGE SEPARATION IN CLUSTERS; CONTROL OF ELECTRON TRANSFER KINETICS: MODELS FOR MEDIUM REORGANIZATION AND DONOR-

ACCEPTOR COUPLING
THEORIES OF STRUCTURE-FUNCTION RELATIONSHIPS FOR BRIDGE-MEDIATED ELECTRON TRANSFER REACTIONSFLUCTUATIONS AND COHERENCE IN LONG-RANGE AND MULTICENTER ELECTRON TRANSFER; LANCZOS ALGORITHM FOR ELECTRON TRANSFER RATES IN SOLVENTS WITH COMPLEX SPECTRAL DENSITIES; SPECTROSCOPIC DETERMINATION OF ELECTRON TRANSFER BARRIERS AND RATE CONSTANTS; PHOTOINDUCED ELECTRON TRANSFER WITHIN DONOR-SPACER-ACCEPTOR MOLECULAR ASSEMBLIES STUDIED BY TIME-RESOLVED MICROWAVE CONDUCTIVITY; FROM CLOSE CONTACT TO LONG-RANGE INTRAMOLECULAR ELECTRON TRANSFER; PHOTOINDUCED ELECTRON TRANSFERS THROUGH o BONDS IN SOLUTION
AUTHOR INDEXSUBJECT INDEX

Sommario/riassunto

an integrated approach to electron transfer phenomenaThis 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