1. Record Nr. UNINA9910783719703321 Autore Yang Xueming **Titolo** Modern Trends In Chemical Reaction Dynamics - Part Ii [[electronic resource]]: Experiment And Theory Singapore, : World Scientific Publishing Company, 2004 Pubbl/distr/stampa **ISBN** 1-281-87718-2 9786611877187 981-256-580-9 Descrizione fisica 1 online resource (539 p.) Collana Advanced series in physical chemistry: v. 14 Altri autori (Persone) LiuKopin Disciplina 541.39 541.394 Soggetti Chemical kinetics 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 index. Nota di contenuto Introduction; Preface; CONTENTS; 1. Doppler-Selected Time-of-Flight Technique: A Versatile Three-Dimensional Velocity Mapping Approach Shih-Huang Lee and Kopin Liu; 2. The Effect of Reactive Resonance on Collision Observables Sheng Der Chao and Rex T. Skodje; 3. State-to-State Dynamics of Elementary Chemical Reactions Using Rydberg H-Atom Translational Spectroscopy Xueming Yang; 4. Multimass Ion Imaging - A New Experimental Method and Its Application in the Photodissociation of Small Aromatic Molecules Cheng-Liang Huang, Yuan T. Lee and Chi-Kung Ni 5. Reactions of Neutral Transition Metal Atoms with Small Molecules in the Gas Phase Jonathan J. Schroden and H. Floyd Davis6. Photodissociation Dynamics of Ozone in the Hartley Band Paul L. Houston: 7. Crossed Molecular Beam Reactive Scattering: Towards Universal Product Detection by Soft Electron-Impact Ionization Piergiorgio Casavecchia, Giovanni Capozza and Enrico Segoloni; 8. Interactions of Vibrationally-Excited Molecules at Surfaces: A Probe for Electronically Nonadiabatic Effects in Heterogeneous Chemistry Alec M. Wodtke

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Sommario/riassunto

The field of chemical reaction dynamics has made tremendous progressduring the last decade or so. This is due largely to the development of many new, state-of-the-art experimental and theoretical techniques during that period. It is beneficial to present these advances, both theoretical and experimental, in a review volume (Parts I and II).