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5. Reactions of Neutral Transition Metal Atoms with Small Molecules in the Gas Phase Jonathan J. Schroden and H. Floyd Davis 6. 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
9. First Principles Quantum Dynamical Study of Four-Atom Reactions Dong H. Zhang, Minghui Yang, Soo-Y. Lee and Michael A. Collins 10. Photodissociation Dynamics of Free Radicals Jingsong Zhang; Index

Sommario/riassunto

The field of chemical reaction dynamics has made tremendous progress during 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 published in two parts (Parts I and II). The primary purpose of this review volume is to provide graduate students and experts in the field with a rather detailed picture of the current status of advanced experimental and theoretical research in chemical reaction dynamics.