

Mode Selective Chemistry



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Reviews

This type of publication is every thing and helped me seeking ahead and much more. It usually fails to charge too much. It is extremely difficult to leave it before concluding, once you begin to read the book.

(Juliet Mertz)

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Book Condition: New. Publisher/Verlag: Springer Netherlands | Proceedings of the Twenty-Fourth Jerusalem Symposium on Quantum Chemistry and Biochemistry Held in Jerusalem, Israel, May 20-23, 1991 | Proceedings of the Twenty Fourth Jerusalem Symposium on Quantum Chemistry and Biochemistry, Jerusalem, May 20-23, 1991 | The Twenty Fourth Jerusalem Symposium reflected the high standards of these distinguished scientific meetings, which convene once a year at the Israel Academy of Sciences and Humanities in Jerusalem to discuss a specific topic in the broad area of quantum chemistry and biochemistry. The topic at this year's Jerusalem Symposium was mode selective chemistry, which constitutes a truly interdisciplinary subject of central interest in the areas of chemical physics, photochemistry and photobiology. The main theme of the Symposium was built around the exploration of the possibility and conditions for non-statistical reaction dynamics in molecules, van der Waals molecules, clusters and condensed phases. The main issues addressed photoselective and coherent excitation modes, bottlenecks for intramolecular vibrational energy redistribution, the consequences of the internal structure of many-atom systems and of rotational vibrational level structure for intramolecular dynamics, bond selective photodissociation, ultrafast chemical clocks for energy disposal, coherent control of photochemical reactions and nonstatistical unimolecular reaction dynamics. The interdisciplinary nature of this research area was deliberated by intensive and extensive interactions between theory and experiment. This volume provides a record of the invited lectures at the Symposium. | How we and Molecules Explore Molecular Landscapes.- Intramolecular Vibrational Redistribution on the Nanosecond Time Scale: ν_1 and $2\nu_1$ Spectra of Substituted Acetylene Compounds.- Multiple Laser Probes of Intramolecular Dynamics at Chemically Significant Energies.- Mode Selective Vibrational Redistribution and Unimolecular Reactions during and after IR-Laser Excitation.- Vibrational Level Structures and Resonances in Triatomic Molecules: H₂O.- Mode Selective Van der Waals Chemistry.- Theoretical Studies on Photofragmentation of Rare Gas-Interhalogen Van der Waals Complexes.- Mode Specific Vibrational...



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