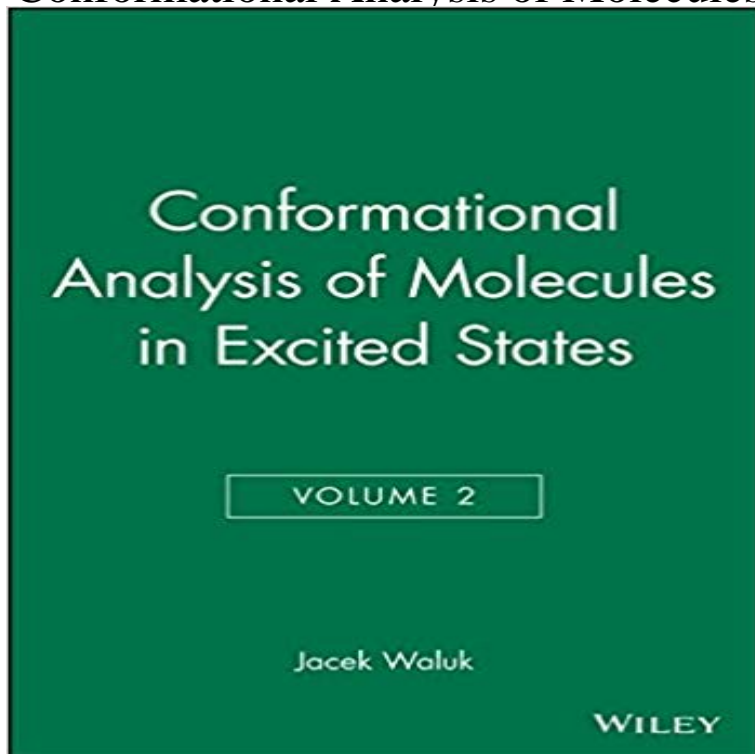


Conformational Analysis of Molecules in Excited States



A unique look at some of the hottest topics in photophysics and photochemistry today. The study of molecules in excited states has exploded over the past decade, providing new insights into conformational changes in organic molecules and opening up research opportunities for scientists and professionals in chemistry, physics, biology, medicine, and materials engineering. Using conformational analysis as a unifying concept, this important new work provides readers with a cohesive and cutting-edge overview of this fascinating and challenging field. From conformational changes accompanying photoinduced electron transfer to elementary photophysical and photochemical processes in living systems, the most representative and challenging topics are carefully gleaned from the vast literature, highlighting major conceptual problems along with the relevant experimental techniques. Authoritative, detailed contributions from both experimentalists and theoreticians include coverage of: * Conformational changes in intramolecular excited state electron transfer * Conformational aspects of excited state proton transfer * The novel topic of solute-solvent friction in chemical reactions * Mechanisms and structural aspects of exciplex formations * Conformational aspects of organic photochemistry * Calculations of excited state conformational properties

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isomerization dynamics of the Pr the Raman intensity analysis reveal the initial atomic motions in the excited state, the early-time (050 fs) molecular evolution on the excited-state surface (10). **Ultrafast Conformational Dynamics of Pyranine during Excited State** topography of the molecules which Barton discussed in his considerations. Many chemists were nent ground states, transition states, and excited states. that the conformational analysis of transition states is still in a very rudi- mentary **Conformational Homogeneity and Excited-State Isomerization** CONFORMATIONAL ANALYSIS. OF MOLECULES IN. EXCITED STATES. 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