Conformational Analysis of Molecules in Excited States. Methods in Stereochemical Analysis

Description: 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

Contents:

Conformational Changes Accompanying Intramolecular Excited State Electron Transfer (W. Rettig & M. Maus).

Conformational Aspects of Intra- and Intermolecular Excited-State Proton Transfer (J. Waluk).

The Role of Solute–Solvent Friction in Large-Amplitude Motions (D. Waldeck).

Structural Aspects of Exciplex Formation (F. Brouwer).

Conformational Aspects of Organic Photochemistry (G. Bartocci, et al.).

Calculations of Excited-State Conformational Properties (M. Olivucci, et al.).

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