



Organic Photochemistry and Photophysics (Molecular and Supramolecular Photochemistry)

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Featuring contributions from leading experts, Organic Photochemistry and Photophysics is a unique resource that addresses the organic photochemistry and photophysical behavior in aromatic molecules, thiocarbonyls, selected porphyrins, and metalloporphyrins.

The book presents theories pertaining to radiative and radiationless transitions. It describes excited-state proton-transfer reactions of aromatic compounds and the physical, energetic, and environmental effects of atom transfer reactions. The text discusses the role of the carbonyl and azo groups in ketones and azoalkanes in the development of photochemistry, followed by a review of nucleophilic substitution reactions in the photochemistry of aromatics (also called photosubstitution) and the various atomic bonds that result from these reactions. The book presents studies that explain the factors that govern the nature and efficiencies of SET-promoted photochemical reactions. It then focuses on photoamination as a convenient, powerful, and environmentally friendly synthetic process for transforming a variety of substrates into the corresponding aminated compounds. The final chapter explores how dye structure affects the sequence-dependence of DNA binding, which has potential applications in nonlinear optics and DNA detection as well as incorporating DNA into various nanostructures and devices.

With an emphasis on the current uses of light in both materials chemistry and medicinal chemistry, this book serves as a comprehensive resource on photochemical reactions and discusses topics that are useful for researchers as well as newcomers in the fields of photochemistry, photobiology, photomedicine, and photophysics

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