

The exploration of supramolecular systems and nanostructures by photochemical techniques

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Abstrak

This book provides a comprehensive view of the most commonly used photochemical and photophysical techniques and their applications to the study of supramolecular systems. Optical inputs are extremely powerful in the study of nanostructures since they can be used both to “read” the state of the system and to provide it energy to work.

After a brief introduction to the realm of photochemistry, electronically excited state formation and the different pathways of excited state deactivation, the book focuses on the theoretical basis and the practical aspects related to the most widely used photophysical and photochemical techniques, from absorption to time-resolved emission techniques with polarized light. Each chapter illustrates an example of the application of that particular technique to the study of a supramolecular system.

This book also offers technical and operative details useful in the laboratory.