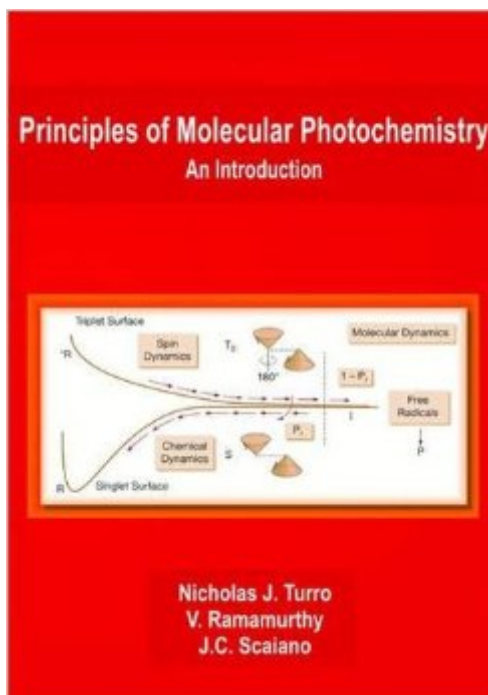


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Principles Of Molecular Photochemistry: An Introduction



Synopsis

This book develops photochemical and photophysical concepts from a small set of familiar principles. Derived in part from Nick Turro's best-selling text for three decades *Modern Molecular Photochemistry* this updated primer introduces an initial paradigm that relates the photon and a reactant molecular structure to photochemistry through the structure and dynamics of electronically excited states, reactive intermediates and products. The same paradigm is readily adapted to incorporate the photon and a reactant molecular structure to photophysics. The book provides brilliantly clear descriptions in pictorial terms that can be readily understood by the student and applied to systems of interest. This text will be of interest to not only practicing photochemists and their students, but also to biological scientists, polymer scientists, material scientists and nanoscientists who use photochemistry and photophysics in their research and teaching.

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Customer Reviews

Turro's latest version of the photochemistry book is an outgrowth of his lifelong passion for assimilating, subliming and distilling his thoughts spanning tens of thousands of hours on this topic. The hall mark of Turro's writing style - clarity of thought, inimitable presentation style, addressing the reader directly, student friendly exposition of photochemical events, obvious but hidden allusions and suggestions for further thought, and penchant for integrating the latest in his science - is clearly manifested in this latest book. I am not amazed at this extraordinary feat emanating from a pioneering expert who chose to coauthor this book with two other excellent photochemists, probably to penetrate and perpetuate the impact of his pedagogic acumen to posterity. I have been a close

follower of his photochemistry classics starting from his prototype like precursor to the present endeavor. Let me proudly recall my tryst with Turro's writings with my discovery of his first book on photochemistry (Molecular Photochemistry, Benjamin, New York, 1965) in the summer of 1976 at the sumptuous library of the Bhabha Atomic Research Centre in Mumbai (where I spent most of my non-experimental hours in that institution during my best youthful days), when I had to initiate my Ph.D. program in the organic photochemistry of laser dyes. Scanning the high energy chemistry shelf at that library, I chose Turro's book with an instant spark of spontaneity, which I never regretted in terms of the gains it entailed in expanding the horizon with minimum effort and maximum efficiency, although some of my then colleagues did not agree with my opinion, which I ever expressed freely being an ardent believer of democratic principles.

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