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By Nicholas J. Turro, J.C. Scaiano, V. Ramamurthy



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MODERN MOLECULAR PHOTOCHEMISTRY OF ORGANIC MOLECULES is a comprehensive revision of Turro's classic text, MODERN MOLECULAR PHOTOCHEMISTRY, which has been the standard of the field for three decades. For a crystal-clear introduction to organic photochemistry in pictorial terms, this book comprises all of the same introductory chapters that make up PRINCIPLES OF MOLECULAR PHOTOCHEMISTRY but then goes on to provide additional chapters that cover the methods for determining the mechanisms of organic photoreactions, and describe comprehensively the photochemistry of the basic functional groups of organic chemistry. The text also includes special topic chapters on supramolecule organic photochemistry, the first of its kind, and the role of triplet and singlet molecular oxygen in organic photochemistry. 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. For adopting professors, an art CD of figures from the book is also available.



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- Sales Rank: #1401873 in Books
- Brand: Brand: University Science Books
- Published on: 2010-01-05
- Original language: English
- Number of items: 1
- Dimensions: 10.10" h x 2.20" w x 7.70" l, 4.50 pounds
- Binding: Hardcover
- 1120 pages

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Editorial Review

Review

This text shows the student how the apparent complexity of organic photochemistry can be reduced to a set of simple paradigms that can be applied to all organic functional groups. The critical concepts of electronic and spin interactions are presented in pictorial terms that can be readily understood by students at the undergraduate and graduate levels. --Andrei Kutateladze, University of Denver

About the Author

NICHOLAS J. TURRO has been the William P. Schweitzer Professor of Chemistry at Columbia University, USA, since 1964. He is the author of Modern Molecular Photochemistry, the standard text in the field, and has published over 750 research papers in established scientific journals. He is a member of the National Academy of Sciences and the American Academy of Arts and Sciences. V. RAMAMURTHY is Bernaud Bauss Professor of Organic Chemistry at Tulane University, New Orleans, USA. JUAN SCAIANO is Professor of Organic Chemistry at the University of Ottawa, Canada.

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