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Modern Molecular Photochemistry: Amazon.co.uk: Turro ...

With two new Co-authors, V.Ramamurthy and J.C. Scaiano, Nick Turro has completely revised and updated his benchmark text Modern Molecular Photochemistry. The new text will present, at a level understandable by advanced undergraduates and postgraduates, the first totally, integrated theory of organic photochemistry, including the first visualization of the role of electron spin at all levels.

Modern Molecular Photochemistry of Organic Molecules ...

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Modern Molecular Photochemistry For Organic Molecules ...

In "Modern Molecular Photochemistry", the author brings students up to date with the advances in this field - the development of the theory of photoreactions, the utilization of photoreactions in synthetic sequences, and the advancement of powerful laser techniques to study the mechanisms of photoreactions.

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Nicholas J. Turro (May 18, 1938 – November 24, 2012) was an American chemist, Wm. P. Schweitzer Professor of Chemistry at Columbia University. He was a world renowned organic chemist and leading world expert on organic photochemistry.

Nicholas Turro - Wikipedia

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Modern Molecular Photochemistry: Turro, Nicholas J ...

"This book is so thorough in its coverage of organic molecular photochemistry, both in basic theory and in detailed examples useful for all kinds of photochemistry, that it can be used as a basic textbook in an introductory course for undergraduate and graduate students."--Melvin Calvin, University of California, Berkeley

Modern Molecular Photochemistry, Nicholas J. Turro

Principles of Molecular Photochemistry: An Introduction: Turro, Nicholas J., Ramamurthy, V., Scaiano, J.C.: Amazon.sg: Books

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[(Modern Molecular Photochemistry of Organic Molecules ...

Chemistry G8348x 1999 Modern Molecular Organic Photochemistry. Instructor: Nicholas Turro Office: 766 Chandler Phone: 4-2175 e-mail: turro@chem.columbia.edu Office Hours: TBA Syllabus. The course will involve a discussion of modern molecular organic photochemistry with emphasis on mechanisms. Useful texts and references: N. J. Turro, "Modern Molecular Photochemistry" (MMP), University Press, Menlo Park, CA, 1978.

Modern Molecular Photochemistry

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Modern Molecular Photochemistry: Turro, Nicholas J ...

Science Books, 2010, 1120 pp., hardcover, £ 159.00, ISBN 978 1891389252

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During the last two decades the photochemistry of organic molecules has grown into an important and pervasive branch of organic chemistry. In Modern Molecular Photochemistry, the author brings students up to date with the advances in this field - the development of the theory of photoreactions, the utilization of photoreactions in synthetic sequences, and the advancement of powerful laser techniques to study the mechanisms of photoreactions.

A complete revision of Turro's classic text, Modern Molecular Photochemistry, which has been the standard of the field for three decades. It presents a clear introduction to organic chemistry and goes on to cover the mechanisms of organic photoreactions and the photochemistry of the basic functional groups of organic chemistry.

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Inleiding tot de studie van organische fotochemische reacties.

This text develops photochemical and photophysical concepts from a set of familiar principles. Principles of Molecular Photochemistry provides in-depth coverage of electronic spin, the concepts of electronic energy transfer and electron transfer, and the progress made in theoretical and experimental electron transfer.

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Features surveys of all areas of organic, inorganic, physical and biological photochemistry. The text serves as a source of scientific findings pertinent to chemistry and biochemistry. It addresses the state of developments in the field, employing reviews of active research, including recent innovations, techniques and applications.

Unique in its focus on preparative impact rather than mechanistic details, this handbook provides an overview of photochemical reactions classed according to the structural feature that is built in the photochemical step, so as to facilitate use by synthetic chemists unfamiliar with this topic. An introductory section covers practical questions on how to run a photochemical reaction, while all classes of the most important photocatalytic reactions are also included. Perfect for organic synthetic chemists in academia and industry.

Applied Photochemistry encompasses the major applications of the chemical effects resulting from light absorption by atoms and molecules in chemistry, physics, medicine and engineering, and contains contributions from specialists in these key areas. Particular emphasis is placed both on how photochemistry contributes to these disciplines and on what the current developments are. The book starts with a general description of the interaction between light and matter, which provides the general background to photochemistry for non-specialists. The following chapters develop the general synthetic and mechanistic aspects of photochemistry as applied to both organic and inorganic materials, together with types of materials which are useful as light absorbers, emitters, sensitisers, etc. for a wide variety of applications. A detailed discussion is presented on the photochemical processes occurring in the Earth 's atmosphere, including discussion of important current aspects such as ozone depletion. Two important distinct, but interconnected, applications of photochemistry are in photocatalytic treatment of wastes and in solar energy conversion. Semiconductor photochemistry plays an important role in these and is discussed with reference to both of these areas. Free radicals and reactive oxygen species are of major importance in many chemical, biological and medical applications of photochemistry, and are discussed in depth. The following chapters discuss the relevance of using light in medicine, both with various types of phototherapy and in medical diagnostics. The development of optical sensors and probes is closely related to diagnostics, but is also relevant to many other applications, and is discussed separately. Important aspects of applied photochemistry in electronics and imeing, through processes such as photolithography, are discussed and it is shown how this is allowing the increasing miniaturisation of semiconductor devices for a wide variety of electronics applications and the development of nanometer scale devices. The final two chapters provide the basic ideas necessary to set up a photochemical laboratory and to characterise excited states. This book is aimed at those in science, engineering and medicine who are interested in applying photochemistry in a broad spectrum of areas. Each chapter has the basic theories and methods for its particular applications and directs the reader to the current, important literature in the field, making Applied Photochemistry suitable for both the novice and the experienced photochemist.

This textbook covers the spectrum from basic concepts of photochemistry and photophysics to selected examples of current applications and research. Clearly structured, the first part of the text discusses the formation, properties and reactivity of excited states of inorganic and organic molecules and supramolecular species, as well as experimental techniques. The second part focuses on the photochemical and photophysical processes in nature and artificial systems, using a wealth of examples taken from applications in nature, industry and current research fields, ranging from natural photosynthesis to photomedicine, polymerizations, photoprotection of materials, holography, luminescence sensors, energy conversion and storage, and sustainability issues. Written by an excellent author team combining scientific experience with didactical writing skills, this is the definitive answer to the needs of students, lecturers and researchers alike going into this interdisciplinary and fast growing field.

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