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

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Organic photochemistry encompasses organic reactions that are induced by the action of light. The absorption of ultraviolet light by organic molecules often leads to reactions. In the earliest days, sunlight was employed, while in more modern times ultraviolet lamps are employed. Organic photochemistry has proven to be a very useful synthetic tool. Complex organic products can be obtained simply.

Organic photochemistry - Wikipedia

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teaching text of organic photochemistry, "Modern Molecular Photochemistry" is, quite simply, an indispensable addition to the literature of the field. Neil E. Schore University of California Davis. CA 95618 Physical Chemistry R. S. Berry. S. A. Rice, and J. Ross. John Wiley & Sons. New York. 1980. xvi + 1259 pp. Figs. and tables. 26 X 22 cm.

Modern molecular photochemistry (Turro, Nicholas J.)

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.

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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.

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Provides references and answers to every question presented in the primary Organic Chemistry textbook Successfully achieving chemical reactions in organic chemistry requires a solid background in physical chemistry. Knowledge of chemical equilibria, thermodynamics, reaction rates, reaction mechanisms, and molecular orbital theory is essential for students, chemists, and chemical engineers. The Organic Chemistry presents the tools and models required to understand organic synthesis and enables the efficient planning of chemical reactions. This volume, Organic Chemistry: Theory, Reactivity, and Mechanisms in Modern Synthesis Workbook, complements the primary textbook—supplying the complete, calculated solutions to more than 800 questions on topics such as thermochemistry, pericyclic reactions, organic photochemistry, catalytic reactions, and more. This companion workbook is indispensable for those seeking clear, in-depth instruction on this challenging subject. Written by prominent experts in the field of organic chemistry, this book: Works side-by-side with the primary Organic Chemistry textbook Includes chapter introductions and re-stated questions to enhance efficiency Features clear illustrations, tables, and figures Strengthens reader's comprehension of key areas of knowledge Organic Chemistry: Theory, Reactivity, and Mechanisms in Modern Synthesis Workbook is a must-have resource for anyone using the primary textbook.

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.

This is the most updated, comprehensive collection of monographs on all aspects of photochemistry and photophysics related to natural and synthetic, inorganic, organic, and biological supramolecular systems. Supramolecular Photochemistry: Controlling Photochemical Processes addresses reactions in crystals, organized assemblies, monolayers, zeolites, clays, silica, micelles, polymers, dendrimers, organic hosts, supramolecular structures, organic glass, proteins and DNA, and applications of photosystems in confined media. This

landmark publication describes the past, present, and future of this growing interdisciplinary area.

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.

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, sensitizers, 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 imaging, 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.

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