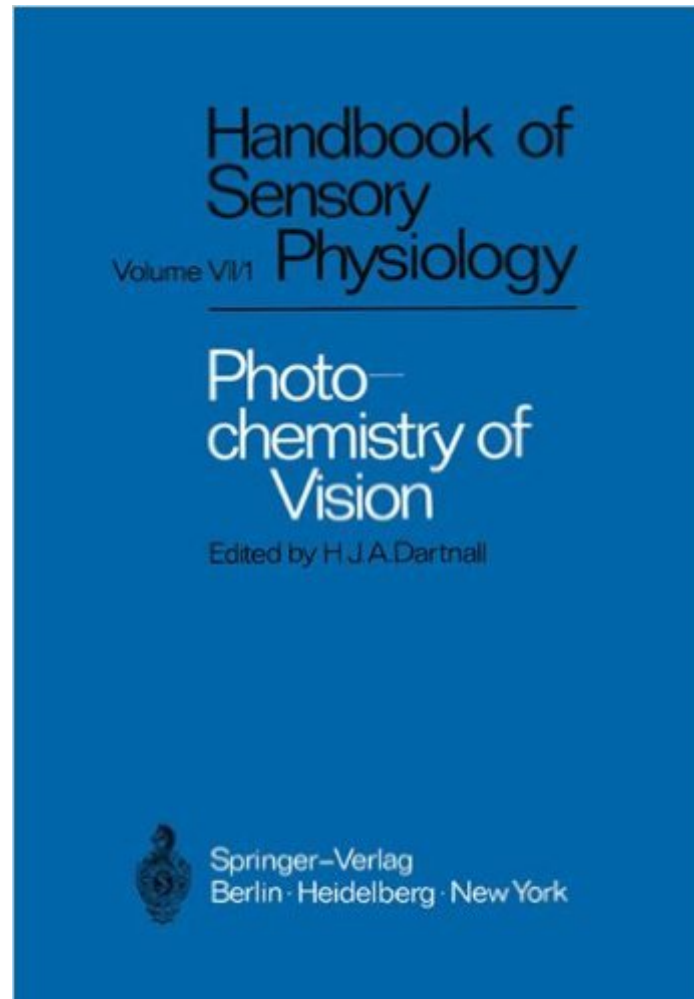


The book was found

# Photochemistry Of Vision (Handbook Of Sensory Physiology)



## Synopsis

Radiation can only affect matter if absorbed by it. Within the broad range of 300-1000 nm, which we call "the visible", light quanta are energetic enough to produce excited electronic states in the atoms and molecules that absorb them. In these states the molecules may have quite different properties from those in their dormant condition, and reactions that would not otherwise occur become possible. About 80 % of the radiant energy emitted by our sun lies in this fertile band, and so long as the sun's surface temperature is maintained at about 6000° C this state of affairs will continue. This and the transparency of our atmosphere and waters have allowed the generation and evolution of life. Before life began the atmosphere probably also transmitted much of the solar short-wave radiation, but with the rise of vegetation a new product - oxygen - appeared and this, by a photochemical reaction in the upper atmosphere, led to the ozone layer that now protects us from the energetic "short-wave" quanta that once, perhaps, took part in the generation of life-molecules. Light is an ideal sensory stimulus. It travels in straight lines at great speed and, consequently, can be made to form an image from which an animal can make "true", continuous and immediate assessments of present and impending events.

## Book Information

Series: Handbook of Sensory Physiology

Hardcover: 848 pages

Publisher: Springer; 1 edition (April 14, 1972)

Language: English

ISBN-10: 3540051457

ISBN-13: 978-3540051459

Shipping Weight: 4.5 pounds

Average Customer Review: Be the first to review this item

Best Sellers Rank: #8,178,894 in Books (See Top 100 in Books) #91 in Books > Science & Math > Chemistry > Photochemistry #19050 in Books > Science & Math > Biological Sciences > Zoology #405180 in Books > Medical Books

[Download to continue reading...](#)

Photochemistry of Vision (Handbook of Sensory Physiology) Everyday Games for Sensory

Processing Disorder: 100 Playful Activities to Empower Children with Sensory Differences Sensory

Mechanisms of the Spinal Cord: Volume 2 Ascending Sensory Tracts and Their Descending Control

Renal Physiology: Mosby Physiology Monograph Series (Mosby's Physiology Monograph) Anatomy

and Physiology Study Guide: Key Review Questions and Answers with Explanations (Volume 3: Nerve Tissue, Spinal Nerves & Spinal Cord, Cranial Nerves & Brain, Neural Integrative, Motor & Sensory Systems, Autonomic Nervous System, Special Senses) Computational Methods in Photochemistry (Molecular and Supramolecular Photochemistry) Organic Molecular Photochemistry (Molecular and Supramolecular Photochemistry) Organic Photochemistry (Molecular and Supramolecular Photochemistry) Bioorganic Photochemistry, Photochemistry and the Nucleic Acids (Volume 1) Chiral Photochemistry (Molecular and Supramolecular Photochemistry) Handbook of Optics, Third Edition Volume III: Vision and Vision Optics(set) Eyesight: How to Naturally Improve Vision - Proven Quick Tips to Improve Eyesight Vision in 30 Days or Less (eyesight improvement, eyesight cure, better eyesight) The 15 Minute Focus: SPORTS VISION: Exercises For Improving Peripheral Vision, Hand-Eye Coordination, and Tracking Ability (The 15 Minute Fix Book 14) Improve Your Eyesight Naturally: How To Improve Your Vision Naturally - Learn Super Effective Eyesight Exercises To Improve Eyesight Without (Vision Therapy, Optometry, Eyesight Improvement) System of Ophthalmology: Physiology of the Eye and Vision v. 4 (His System of ophthalmology, v. 4) Respiratory Physiology: The Essentials (Respiratory Physiology: The Essentials (West)) Human Anatomy & Physiology (9th Edition) (Marieb, Human Anatomy & Physiology) Human Anatomy & Physiology Laboratory Manual, Fetal Pig Version (12th Edition) (Marieb & Hoehn Human Anatomy & Physiology Lab Manuals) Anatomy & Physiology: The Unity of Form and Function: Anatomy & Physiology: The Unity of Form and Function Physiology, (Costanzo Physiology)

[Dmca](#)