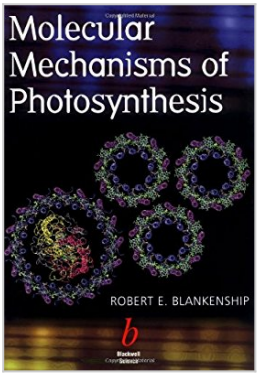

Molecular Mechanisms of Photosynthesis

By Robert E. Blankenship

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Molecular Mechanisms of Photosynthesis stands as an ideal introduction to this subject. Robert Blankenship, a leading authority in photosynthesis research, offers a modern approach to photosynthesis in this accessible and well-illustrated text. The book provides a concise overview of the basic principles of energy storage and the history of the field, then progresses into more advanced topics such as electron transfer pathways, kinetics, genetic manipulations, and evolution. Throughout, Blankenship includes an interdisciplinary emphasis that makes this book appealing across fields.

- Leading authority in Photosynthesis and the the President of the International Society of Photosynthesis Research.
- First authoritative text to enter the market in 10 years.
- Stresses an interdisciplinary approach, which appeals to all science students.
- Emphasizes the recent advances in molecular structures and mechanisms.
- Only text to contain comprehensive coverage of both bacterial and plant photosynthesis.
- Includes the latest insights and research on structural information, improved spectroscopic techniques as well as advances in biochemical and genetic methods.
- Presents the most extensive treatment of the Origin and evolution of photosynthesis.
- Comprehensive appendix, which includes a detailed introduction to the physical basis of photosynthesis, including thermodynamics, kinetics and spectroscopy.

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Molecular Mechanisms of Photosynthesis By Robert E. Blankenship Bibliography

- Sales Rank: #2479894 in Books
- Published on: 2002-02
- Original language: English
- Number of items: 1
- Dimensions: 9.72" h x .82" w x 6.80" l, 1.33 pounds
- Binding: Paperback
- 336 pages

Editorial Review

Review
"*Molecular Mechanisms of Photosynthesis* is an engaging story of some of the cutting edges of science over the past three centuries. You will learn how oxygen was discovered, why plants are green and the sky blue, and how a spectrophotometer works. There were Nobel prizes (total seven, I think) for discoveries in almost every chapter of this book, and probably more to come. Away with academic disciplines. Science at this level is exhilarating, and something everyone should have an opportunity to know and to understand." *John F Allen, TRENDS in Plant Science, 2002*

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From the Back Cover
This is the long-awaited introduction to photosynthesis, with the emphasis on the molecular level.

Photosynthesis has long been a paradigm for interdisciplinary science, where physicists, chemists and biologists pool their expertise to understand one of the most important and complex natural processes on Earth. This interdisciplinary aspect is emphasized in the book, and selected topics of chemistry, physics, biology and even geology are included.

Users Review

From reader reviews:

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