



Photosynthesis (Advances in Photosynthesis and Respiration)

Bacon Ke

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Photosynthesis: Photobiochemistry and Photobiophysics is the first single-authored book in the Advances in Photosynthesis Series. It provides an overview of the light reactions and electron transfers in both oxygenic and anoxygenic photosynthesis. The scope of the book is characterized by the time frame in which the light reactions and the subsequent electron transfers take place, namely between $\leq 10^{-12}$ and $\geq 10^{-3}$ second. The book is divided into five parts: An Overview; Bacterial Photosynthesis; Photosystem II & Oxygen Evolution; Photosystem I; and Proton Transport and Photophosphorylation. In discussing the structure and function of various protein complexes, we begin with an introductory chapter, followed by chapters on light-harvesting complexes, the primary electron donors and the primary electron acceptors, and finally the secondary electron donors. The discussion on electron acceptors is presented in the order of their discovery to convey a sense of history, in parallel with the advancement in instrumentation of increasing time resolution. The book includes a large number of stereo pictures showing the three-dimensional structure of various photosynthetic proteins, which can be easily viewed with unaided eyes. This book is designed to be used as a textbook in a graduate or upper-division undergraduate course in photosynthesis, photobiology, plant physiology, biochemistry, and biophysics; it is equally suitable as a resource book for students, teachers, and researchers in the areas of molecular and cellular biology, integrative biology, microbiology, and plant biology.

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