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Molecular Processes of Photosynthesis: Volume 10 (Hardback)

By J. Barber

ELSEVIER SCIENCE TECHNOLOGY, United Kingdom, 1995. Hardback. Condition: New. Language: English . Brand New Book. Research into the basic mechanisms of photosynthesis has a long and distinguished history and has consistently been at the forefront of science. The success of this research, particularly in recent years, suggests that photosynthesis may turn out to be the first complex biological system to have its structure, function, and regulation described in rigorous chemical terms at the atomic level. It is likely that such knowledge will help us to tackle perhaps the most vital problem facing mankind, namely our need for a continuous and nonpolluting source of energy. The benefit may come by providing a blueprint for new technologies able to carry out efficient conversion of solar energy based on the principles of biological systems, and/or creating highly efficient energy crops sufficiently hardy to grow in a wide range of environments. The former is likely to involve new developments in material sciences while the latter will call on the rapidly advancing techniques of genetic engineering. The contents of this volume review some of the most important developments which are a part of the drive towards the overall goal of obtaining the complete description of...



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