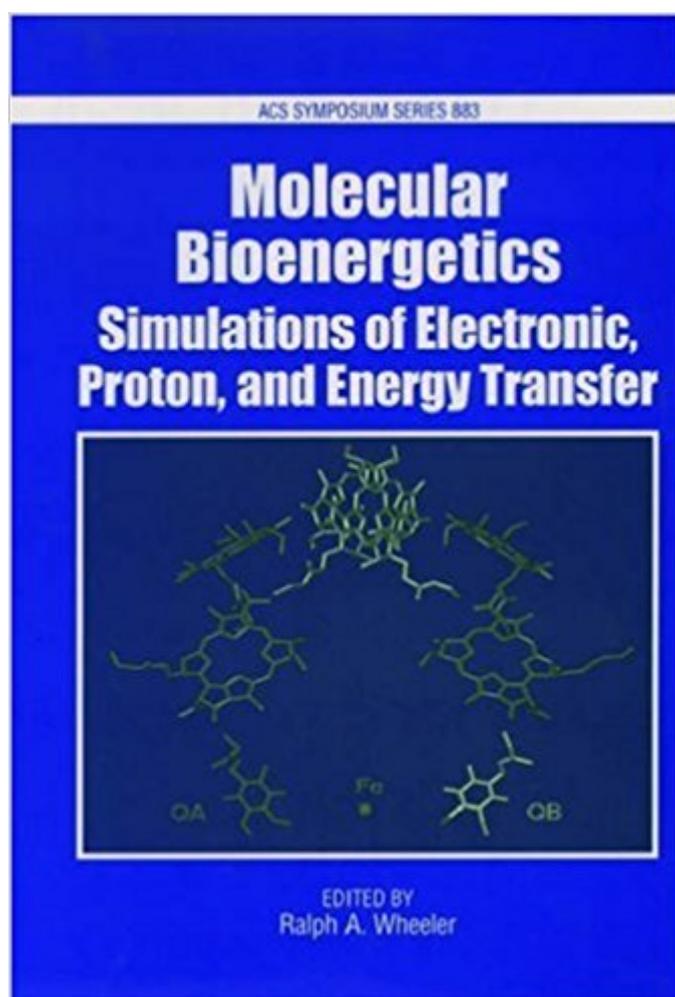


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Synopsis

All living things rely on the efficient storage, transduction, and use of energy. For example, all free energy used by biological systems originates from solar energy stored by photosynthesis and its effective use relies on its transformation from one form to the other. In this volume, leaders in the fields of computational modeling of electron transfer, proton transfer, proton-coupled electron transfer, and energy transduction present new methods for simulating bioenergetic processes and summarize applications to proteins, including the photosynthetic reaction center, bacteriorhodopsin, and cytochrome c.

Book Information

Series: ACS Symposium Series (Book 883)

Hardcover: 210 pages

Publisher: American Chemical Society; 1 edition (July 22, 2004)

Language: English

ISBN-10: 0841237204

ISBN-13: 978-0841237209

Product Dimensions: 9.1 x 0.5 x 6.2 inches

Shipping Weight: 12 ounces (View shipping rates and policies)

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