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Bioelectrochemistry Of Biomacromolecules (Bioelectrochemistry (Birkhauser Verlag), Vol 5)



Synopsis

Bioelectrochemistry: Principles and Practice provides a comprehensive compilation of all the physicochemical aspects of the different biochemical and physiological processes. Macromolecules, essentially nucleic acids, proteins and complex carbohydrates, are the building blocks of cell structure and function. This fifth volume in the "Bioelectrochemistry" series deals essentially with water-soluble biomacromolecules, since the properties of membrane-bound proteins are considered in other volumes of this series. The first chapter provides an extensive review of the structure, chemical reactivity and electromagnetic properties of nucleic acids. The following five chapters concentrate on proteins, their structure, folding and function, the electrochemistry of redox proteins and voltammetric methods. Special attention is devoted to the field of thiol/disulfide exchange as well as to one particular class of proteins, the iron-sulfur proteins. The last chapter considers the chemistry and properties of glycosaminoglycans, the complex charged polysaccharides of the cell surface and extracellular matrix. This series is intended as a set of source books for graduate and postgraduate students as well as research workers at all levels in bioelectrochemistry. --This text refers to the Paperback edition.

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