

Nath And Upadhyaya Biophysical Chemistry

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A comprehensive discussion of the various analytical techniques that are carried out in biochemistry, intends to support students in grasping techniques which are of use for theoretical and practical purposes.

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1. Introduction, 2. Biomolecules, 3. Principles of Kinetics of molecules, 4. Principles of optics in Biological studies, 5. Biophysical Phenomena in Biochemical studies, 6. Electromagnetic Radiation and Spectroscopy in Biological studies, 7. Other optical techniques in Biological studies, 8. Bioelectricity and Nerve Impluse conduction, 9. Radiation Biology.

??University Science Books????

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Dramatic advances have been made in recent years in the field of redox enzymology which has resulted in an increase of research activities. This volume will cover the recent milestone developments in this field by leading experts, uniting theory and experiment, and selecting contributions to illustrate important aspects of the mechanisms of electron and radical transfer in proteins. Features: A demonstration of the key principles controlling biological redox reactions; Experimental studies of `simple' soluble systems in various enzyme families to illustrate concepts in the control of electron transfer reactions; Detail of advances made in membrane electron transfer through structural descriptions of key membrane-embedded proteins; Appeal to those interested in the design and use of redox enzymes, from academics to industrialists.

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Biophysical Chemistry(principles and Techniques)Biophysical Chemistry(principles and Techniques)Mirabilis jalapa as natural food dye and primary quality analysisAmazon Publishers, USA

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Synthetic food colors are widely used in different types of food stuffs in India as well as in the world. Changing lifestyles across the globe have transformed food habit patterns. The instant and processed foods (junk foods) are mainly used in a variety of attractive “Synthetic food colors” by its manufacturers. The natural food pigments were extracted from the Mirabilis jalapa flowers, and leaf of Nyctaginaceae family. The extracted natural food pigments were exposed to different pH, temperature and various quality analysis. The result showed that the different parameters express as Mirabilis jalapa pigment as high stability natural food colouring agent. In the present study also an attempt has been aimed to study the Extraction, Titrable acidity, Ascorbic acid content, Phytochemical analysis and adulteration by Chromatographic methods.

???Prentice Hall????????

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