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Autore	Saakov Vladimir S
Titolo	Derivative Spectrophotometry and PAM-Fluorescence in Comparative Biochemistry / / by Vladimir S. Saakov, Alexander I. Krivchenko, Eugene V. Rozengart, Irina G. Danilova
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Descrizione fisica	1 online resource (624 p.)
Disciplina	570
Soggetti	Bioinformatics Computational biology Biophysics Biochemistry Computer Appl. in Life Sciences Biological and Medical Physics, Biophysics Biochemistry, general
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	Introduction. Development of the methodological base, disputes, conclusions -- Successes of the pulse amplitude modulated fluorescence application -- Methodological approaches in our experimental work -- Application of Derivative Spectrophotometry in Comparative Biochemical Studies -- The Range of DHSO Application in Experiments with Pigments of Plants and Animals -- Conclusion.
Sommario/riassunto	This book presents various examples of how advanced fluorescence and spectroscopic analytical methods can be used in combination with computer data processing to address different biochemical questions. The main focus is on evolutionary biochemistry and the description of biochemical and metabolic issues; specifically, the use of pulse amplitude modulated fluorescence (PAM) for the functional analysis of the cellular state, as well as results obtained by means of the derivative spectroscopy method characterizing structural reorganization of a cell under the influence of external factors, are discussed. The topics

presented here will be of interest to biologists, geneticists, biophysicists and biochemists, as well as experts in analytical chemistry, pharmaceutical chemistry and radiochemistry and radioactivation studies with protonen and alpha-particles. It also offers a valuable resource for advanced undergraduate and graduate students in biological, physical and chemical disciplines whose work involves derivative spectrophotometry and PAM-fluorescence.