



Spin Labeling: Theory and Applications: v. 1 (Molecular Biology Series, Vol 1)

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Spin Labeling: Theory and Applications covers the background, theory, and applications of spin labeling. The book starts by providing an introduction about electron spin resonance in biology and a reporter group technique of spin labelling. The text then describes the principles and theories of magnetic resonance; the theory of slow tumbling ESR spectra for nitroxides; and the influence of electron-electron interactions on the appearance of the electron resonance spectrum.

The chemistry of spin labels; the molecular structures of nitroxides; the instrumental aspects of spin labeling; as well as the use of spin labels for studying the structure and function of enzymes are also considered. The book further discusses spin-label-induced nuclear magnetic resonance relaxation studies of enzymes; anisotropic motion in liquid crystalline structures; and the use of oriented lipid systems as model membranes. The text also looks into the application of lipid spin labels in biological membranes as well as the molecular motion in biological membranes. Chemists, molecular biologists, chemical physicists, people involved in the study of physical spectrometry, and graduate students taking related courses will find the book invaluable.



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