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Lambert – Beer Law and Absorption Spectroscopy. Fluorophore Dimerization and Isosbestic Points. Franck – Condon Principle. Temperature Effects on Absorption and Emission Spectra. Fluorescence and Competing Processes. Stokes Shift, Solvent Relaxation, and Solvatochromism. Fluorescence Quantum Yield and Lifetime. Fluorescence Anisotropy. References

Basic Principles of Fluorescence ... - Wiley Online Library

The third edition of the established classic text reference, Principles of Fluorescence Spectroscopy, will enhance upon the earlier editions' successes. Organized as a textbook for the learning student or the researcher needing to acquire the core competencies, Principles of Fluorescence Spectroscopy, 3e will maintain the emphasis on basics, while updating the examples to include recent

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results from the literature.

Principles of Fluorescence Spectroscopy - Springer

This handbook provides a straightforward introduction to spectroscopy, showing what it can do and how it does it, together with a clear, integrated and objective account of the wealth of information that can be derived from spectra. The sequence of chapters covers a wide range of the electromagnetic spectrum, and the physical processes involved, from nuclear phenomena to molecular rotation processes.

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Excitation spectrum Emission spectrum Decay times
(fluorescence lifetimes) Quantum yield Anisotropy (or polarization)

Fluorescence Spectroscopy - ISS

Fluorescence spectroscopy is a type of electromagnetic spectroscopy that analyzes fluorescence from a sample. It involves using a beam of light, usually ultraviolet light, that excites the electrons in molecules of certain compounds and causes them to emit light;

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Typically, but not necessarily, visible light. A complementary technique is absorption spectroscopy. In the special case of single molecule fluorescence spectroscopy, intensity fluctuations from the emitted light are measured from either

Fluorescence spectroscopy - Wikipedia

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