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About this book. Providing much-needed information on fluorescence spectroscopy and microscopy, this ready reference covers detection techniques, data registration, and the use of spectroscopic tools, as well as new techniques for improving the resolution of optical microscopy below the resolution gap. Starting with the basic principles, the book goes on to treat fluorophores

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For polyatomic molecules in solution, the discrete electronic transitions represented by $h\nu_{EX}$ and $h\nu_{EM}$ in Figure 2 are replaced by rather broad energy spectra called the fluorescence excitation spectrum and fluorescence emission spectrum, respectively (Figure 3, Table 1). The bandwidths of these spectra are parameters of particular importance for applications in which two or more different ...

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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.

Handbook of Spectroscopy | Wiley Online Books

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

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compounds and causes them to emit light; 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

similar to the excitation spectrum. Fluorophores can be detected by UV-vis detectors and at the same time the obtained spectra indicate how to excite them. Note that the applied standard must be typically 50 – 100 times more concentrated than for the later fluorescence detection. This handbook does not focus on

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optimization of the

Fluorescence Method Development Handbook

These color spectra are described quantitatively by wavelength of light. The most common wavelength unit for describing fluorescence spectra is the nanometer (nm). The colors of the visible spectrum can be broken up into the approximate wavelength values (Figure 2): violet and indigo 400 to 450 nm blue and aqua 450 to 500 nm

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Handbook of Fluorescence Spectra of Aromatic Molecules, Second Edition describes the fluorescence and absorption spectra of about 200 aromatic compounds, most of which fall into the following classes: p-oligophenylenes, indole derivatives, fluoranthene derivatives, naphthalene derivatives, biphenyl derivatives, and biological stains. Experiments

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with lasers and their relevance to fluorescence studies are included. This handbook is comprised of seven chapters and begins with a historical overview of research into the fluorescence characteristics of compounds, the methods and equipment used to measure fluorescence, and elementary considerations concerning luminescence. The format for the presentation of data pertaining to each compound covered in this text is described, together with the equipment for exciting, detecting, and recording the spectrum of the emitted radiation. The discussion then turns to the free electron model and presents general information on concepts such as chromophores, planar and nonplanar molecules, effects of planarity on

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fluorescence, solvent and concentration effects, and polarization. The following chapters focus on compounds such as benzene and polycyclic hydrocarbons as well as some uses of fluorescent compounds. This monograph will be of interest to organic chemists and physicists.

Providing much-needed information on fluorescence spectroscopy and microscopy, this ready reference covers detection techniques, data registration, and the use of spectroscopic tools, as well as new techniques for improving the resolution of optical microscopy

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below the resolution gap. Starting with the basic principles, the book goes on to treat fluorophores and labeling, single-molecule fluorescence spectroscopy and enzymatics, as well as excited state energy transfer, and super-resolution fluorescence imaging. Examples show how each technique can help in obtaining detailed and refined information from individual molecular systems.

`In the second edition of Principles I have attempted to maintain the emphasis on basics, while updating the examples to include more recent results from the literature. There is a new chapter providing an overview of extrinsic fluorophores. The discussion of

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timeresolved measurements has been expanded to two chapters. Quenching has also been expanded in two chapters. Energy transfer and anisotropy have each been expanded to three chapters. There is also a new chapter on fluorescence sensing. To enhance the usefulness of this book as a textbook, most chapters are followed by a set of problems. Sections which describe advanced topics are indicated as such, to allow these sections to be skipped in an introduction course. Glossaries are provided for commonly used acronyms and mathematical symbols. For those wanting additional informtion, the final appendix contains a list of recommended books which expand on various specialized topics.' from the author's Preface

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Fluorescence methods are being used increasingly in biochemical, medical, and chemical research. This is because of the inherent sensitivity of this technique. and the favorable time scale of the phenomenon of fluorescence. 8 Fluorescence emission occurs about 10- sec (10 nsec) after light absorption. During this period of time a wide range of molecular processes can occur, and these can effect the spectral characteristics of the fluorescent compound. This combination of sensitivity and a favorable time scale allows fluorescence methods to be generally useful for studies of proteins and membranes and their interactions with other macromolecules. This book describes the

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fundamental aspects of fluorescence. and the biochemical applications of this methodology. Each chapter starts with the -theoreticalbasis of each phenomenon of fluorescence, followed by examples which illustrate the use of the phenomenon in the study of biochemical problems. The book contains numerous figures. It is felt that such graphical presentations contribute to pleasurable reading and increased understanding. Separate chapters are devoted to fluorescence polarization, lifetimes, quenching, energy transfer, solvent effects, and excited state reactions. To enhance the usefulness of this work as a textbook, problems are included which illustrate the concepts described in each chapter. Furthermore, a separate

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chapter is devoted to the instrumentation used in fluorescence spectroscopy. This chapter will be especially valuable for those performing or contemplating fluorescence measurements. Such measurements are easily compromised by failure to consider a number of simple principles.

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

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to molecular rotation processes. - A day-by-day laboratory guide: its design based on practical knowledge of spectroscopists at universities, industries and research institutes - A well-structured information source containing methods and applications sections framed by sections on general topics - Guides users to a decision about which spectroscopic method and which instrumentation will be the most appropriate to solve their own practical problem - Rapid access to essential information - Correct analysis of a huge number of measured spectra data and smart use of such information sources as databases and spectra libraries

Melding basic and clinical science, this reference

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provides a comprehensive overview of the roles that biophysics, photochemistry, and computational modeling play in the biomedical applications of fluorescence spectroscopy and imaging. Penned by pioneering researchers, the Handbook of Biomedical Fluorescence discusses fundamental aspects of fluorescence generation in organic molecules within tissue, theoretical and experimental views of how light propagation in tissue can be used to interpret fluorescence signals, endogenous and exogenous fluorescence agents in medical or basic research studies, and radiation transport, diffusion theory, and the Monte Carlo method.

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