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This second edition of the well-established bestseller is completely updated and revised with approximately 30 % additional material, including two new chapters on applications, which has seen the most significant developments. The comprehensive overview written at an introductory level covers fundamental aspects, principles of instrumentation and practical applications, while providing many valuable tips. For photochemists and photophysicists, physical chemists, molecular physicists, biophysicists, biochemists and biologists, lecturers and students of chemistry, physics, and biology.

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'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 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 information, the final appendix contains a list of recommended books which expand on various specialized topics.' from the author's Preface

Fluorescence spectroscopy is an important investigational tool in many areas of analytical science, due to its extremely high sensitivity and selectivity. With many uses across a broad range of chemical, biochemical and medical research, it has become an essential investigational technique allowing detailed, real-time observation of the structure and dynamics of intact biological systems with extremely high resolution. It is particularly heavily used in the pharmaceutical industry where it has almost completely replaced radiochemical labelling. Principles and Applications of Fluorescence Spectroscopy gives the student and new user the essential information to help them to understand and use the technique confidently in their research. By integrating the treatment of absorption and fluorescence, the student is shown how fluorescence phenomena arise and how these can be used to probe a range of analytical

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problems. A key element of the book is the inclusion of practical laboratory experiments that illustrate the fundamental points and applications of the technique.

The phenomenon known as fluorescence is now widely used in the chemical and life sciences largely due to the development of highly sophisticated fluorescent probe chemistries and the commercial availability of these probes as well as the development of novel microscopy approaches. Introduction to Fluorescence helps readers acquire a sound understanding of basic fluorescence theory and practice. It describes general principles in a straightforward way and uses examples from a variety of disciplines to demonstrate them. In color throughout, the book takes readers through the history of important discoveries to the most current advances. It introduces the fundamentals of the fluorescence phenomenon and gives detailed examples of fluorescence applications in the molecular life sciences, including biochemistry, biophysics, clinical chemistry and diagnostics, pharmaceutical science, and cell and molecular biology. The author presents the basic theories underlying the applications and offers in-depth information on practical aspects. Along with a list of references in each chapter, the text incorporates more than 250 figures that clearly illustrate the concepts and gives the chemical structures of the most widely used fluorescent molecules. In addition, the appendix provides a "Rogue's Gallery" of the most common errors and pitfalls to avoid.

While there are many publications on the topic written by experts for experts, this text is specifically designed to allow advanced students and researchers with no background in physics to comprehend novel fluorescence microscopy techniques. This second edition

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features new chapters and a subsequent focus on super-resolution and single-molecule microscopy as well as an expanded introduction. Each chapter is written by a renowned expert in the field, and has been thoroughly revised to reflect the developments in recent years.

Fluorescence and Phosphorescence Spectroscopy: Physicochemical Principles and Practice deals with the physicochemical principles and applications of fluorescence and phosphorescence spectroscopy in experimental biology and chemistry. Topics covered include the absorption of light by molecules; instrumentation for the measurement of fluorescence and phosphorescence; solvent and acidity effects on electronic spectra; and polarization of fluorescence and phosphorescence. Comprised of four chapters, this book begins with a discussion on photophysical processes in isolated molecules and molecules in solution, paying particular attention to thermal equilibration of electronically excited molecules, phototautomerism, and coordination by metal ions. The next chapter describes the instrumentation for measuring fluorescence and phosphorescence, which consists essentially of a light source to electronically excite the sample; a monochromator to separate the light of desired energy from the source; a sample compartment; a second monochromator to isolate the sample's fluorescence energy from the excitation energy; a photodetector to translate the fluorescent light into an electrical signal; and a readout system such as a galvanometer or a recorder, coupled with an amplifier to determine the intensity of fluorescent light that is emitted. The final chapter is devoted to various applications of fluorescence and phosphorescence

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spectroscopy, including the analysis of organic and inorganic compounds. This monograph is written primarily for analytical chemists and biological scientists.

The detection of single molecules opens up new horizons in analytical chemistry, biology and medicine. This discipline, which belongs to the expanding field of nanoscience, has been rapidly emerging over the last ten years. This handbook provides a thorough overview of the field. It begins with basics of single molecule detection in solution, describes methods and devices (fluorescence correlation spectroscopy, surface enhanced Raman scattering, sensors, especially dyes, screening techniques, especially confocal laser scanning microscopy). In the second part, various applications in life sciences and medicine provide the latest research results. This modern handbook is a highly accessible reference for a broad community from advanced researchers, specialists and company professionals in physics, spectroscopy, biotechnology, analytical chemistry, and medicine. Written by leading authorities in the field, it is timely and fills a gap - up to now there exists no handbook concerning this theme.

Core text on principles, laboratory/field methodologies, and data interpretation for fluorescence applications in aquatic science, for advanced students and researchers.

Fluorescence Applications in Biotechnology and the Life Sciences Edited by Ewa M. Goldys A self-contained treatment of the latest fluorescence applications in biotechnology and the life sciences Fluorescence Applications in Biotechnology and the Life Sciences is the first reference in this important subject area to focus specifically on the present applications of

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fluorescence in molecular and cellular dynamics, biological/medical imaging, proteomics, genomics, and flow cytometry. It is designed to raise awareness of the latest scientific approaches and technologies that may help resolve problems relevant for the industry and the community in areas such as public health, food safety, and environmental monitoring. Following an introductory chapter on the basics of fluorescence, the book covers: labeling of cells with fluorescent dyes; genetically encoded fluorescent proteins; nanoparticle fluorescence probes; quantitative analysis of fluorescent images; spectral imaging and unmixing; correlation of light with electron microscopy; fluorescence resonance energy transfer and applications; monitoring molecular dynamics in live cells using fluorescence photo-bleaching; time-resolved fluorescence in microscopy; fluorescence correlation spectroscopy; flow cytometry; fluorescence in diagnostic imaging; fluorescence in clinical diagnoses; immunochemical detection of analytes by using fluorescence; membrane organization; and probing the kinetics of ion pumps via voltage-sensitive fluorescent dyes. With its multidisciplinary approach and excellent balance of research and diagnostic topics, this book will appeal to postgraduate students and a broad range of scientists and researchers in biology, physics, chemistry, biotechnology, bioengineering, and medicine.

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