



Introduction to Fluorescence Sensing [

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Springer

Medicine Laboratory medicine Biophysics Biological physics Physical measurements Measurement Biomedicine Laboratory Medicine Measurement Science and Instrumentation Biophysics and Biological Physics

Monografía

Fluorescence is the most popular technique in chemical and biological sensing and this book provides systematic knowledge of basic principles in the design of fluorescence sensing and imaging techniques together with critical analysis of recent developments. Its ultimate sensitivity, high temporal and spatial resolution and versatility enables high resolution imaging within living cells. It develops rapidly in the directions of constructing new molecular recognition units, new fluorescence reporters and in improving sensitivity of response, up to the detection of single molecules. Its application areas range from the control of industrial processes to environment monitoring and clinical diagnostics. Being a guide for students and young researchers, it also addresses professionals involved in active basic and applied research. Marking a strong link between education, research and product development, this book discusses prospects for future progress

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Contenido: 1 Introduction -- 2 Basic Principles -- 3 Theoretical Aspects -- 4 Fluorescence Detection Techniques -- 5 Molecular-Size Fluorescence Emitters -- 6 Nanoscale Fluorescence Emitters -- 7 Fluorescent Nanocomposites -- 8 Recognition Units -- 9 Mechanisms of Signal Transduction -- 10 Supramolecular Structures and Interfaces for Sensing -- 11 Non-Conventional Generation and Transformation of Response -- 12 The Sensing Devices -- 13 Focusing on Targets -- 14 Sensing Inside the Living Cells -- 15 Sensing the Whole Body and Clinical Diagnostics -- 16 Opening New Horizons -- Epilogue -- Appendix. Glossary of Terms Used in Fluorescence Sensing -- Index

Detalles del sistema: Modo de acceso: Word Wide Web Modo de acceso: World Wide Web

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