



## New Trends in Fluorescence Spectroscopy

By Valeur, Bernard / Brochon, Jean-Claude

Book Condition: New. Publisher/Verlag: Springer, Berlin | Applications to Chemical and Life Sciences | This first volume in the new Springer Series on Fluorescence brings together fundamental and applied research from this highly interdisciplinary and field, ranging from chemistry and physics to biology and medicine. Special attention is given to supramolecular systems, sensor applications, confocal microscopy and protein-protein interactions. This carefully edited collection of articles is an invaluable tool for practitioners and novices. | 1 Historical Aspects of Fluorescence.- 1 Introduction: On the Origin of the Terms Fluorescence, Phosphorescence, and Luminescence.- References.- 2 Pioneering Contributions of Jean and Francis Perrin to Molecular Luminescence.- 2.1 Introduction.- 2.2 Biographical Sketches of Jean Perrin and Francis Perrin.- 2.3 The Perrin-Jablonski Diagram.- 2.3.1 Jablonski Diagram.- 2.3.2 États Métastables - Phosphorescence.- 2.4 Resonance Energy Transfer.- 2.5 Fluorescence Polarization.- 2.6 Concluding Remarks.- 2.7 Bibliographical Notes.- References.- 3 The Seminal Contributions of Gregorio Weber to Modern Fluorescence Spectroscopy.- 3.1 Overview.- 3.2 Early Years.- 3.3 Cambridge.- 3.4 Francis Perrin's Influence.- 3.5 Ph.D. Thesis.- 3.6 Postdoctoral.- 3.7 Sheffield.- 3.8 Intrinsic Protein Fluorescence.- 3.9 Red-Edge Effects.- 3.10 EEM.- 3.11 Brandeis.- 3.12 University of Illinois.- 3.13 Phase Fluorometry.- 3.14 Polarization Revisited.- 3.15 Students, Postdocs and Visitors.- 3.16 Commercialization of Fluorescence.- 3.17 National...

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