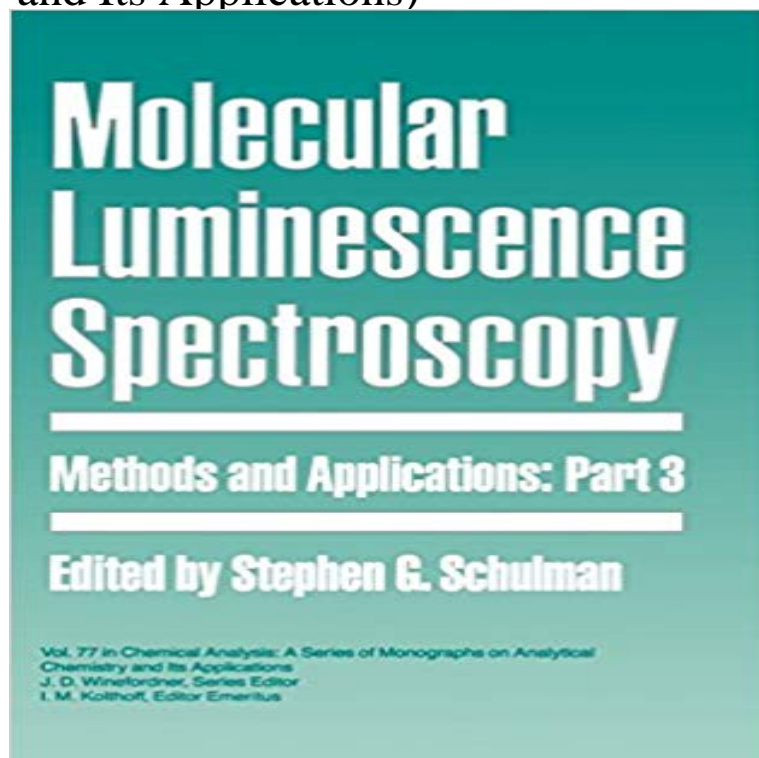


Molecular Luminescence Spectroscopy: Methods and Applications, Part 3 (Chemical Analysis: A Series of Monographs on Analytical Chemistry and Its Applications)



Over the past three decades, luminescence spectroscopy has transcended its origins as a curiosity in the physical laboratory to become a widely used and respected staple of the analytical chemists instrumentation arsenal. Fluorescence, chemiluminescence, and phosphorescence spectroscopies are now routinely applied to such real analytical problems as the quantitation, qualitative identification, and structural characterization of organic and inorganic compounds and even of cellular structures. And the list of recent advances in analytical applications of luminescence spectroscopy keeps growing. The earlier volumes of Molecular Luminescence Spectroscopy provided professional chemists with a detailed, exhaustive, and up-to-date look at the applications of fluorescence, phosphorescence, and chemiluminescence spectra to the analysis of organic and inorganic compounds. Presenting topics never available in any analytical text, such as excited state optical activity and bioinorganic luminescence spectroscopy, the volumes represented a significant advance in the chemical literature. Part 3 continues the books always current and practical examination of the fields newest innovative turns. In a clear, systematic format, Part 3 discusses such widespread or ascendant laboratory techniques as: photochemically generated fluorophores fluorescent probes luminescence from bile salt aggregates hole-burning spectroscopy laser-excited microspectro-fluorometry near-infrared luminescence spectroscopy Other topics such as the fluorescence and phosphorescence of pharmaceuticals and natural products have never been reviewed as exhaustively before. The chapters on fluorescence detection in chromatography and luminescence immunoassay are the most up-to-date treatments available on these subjects. Invaluable to analytical chemists, instructors, and students,

Molecular Luminescence Spectroscopy, Part 3 offers expert guidance on the practical specifics of this multi-faceted technique as well as its farreaching analytical possibilities.

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