

Overview

This monograph resulted from the ASTM-sponsored Symposium on Laser-Based Approaches in Luminescence Spectroscopy at the FACSS XV Meeting. This volume is the fourth in a series sponsored by ASTM Subcommittee E.13.06 on Molecular Luminescence together with earlier volumes, ASTM STP 822 *New Directions in Molecular Luminescence* and ASTM STP 863 *Advances in Luminescence Spectroscopy*, and ASTM STP 1009 *Progress in Analytical Luminescence*, intended to provide the latest advances in luminescence research to spectroscopists and analytical chemists.

Luminescence spectroscopy is extensively used in chemical and biological analysis due to its exceptional sensitivity, excellent selectivity, time-resolution capability, and adaptability to a wide range of fields. The use of lasers has further extended the analytical figures of merit of luminescence techniques. This monograph covers a wide range of laser techniques in luminescence from high-resolution methods, photolytic fragmentation to thermal lensing and capillary electrophoresis applications, and the most recent developments in time- and phase-resolution methodologies.

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