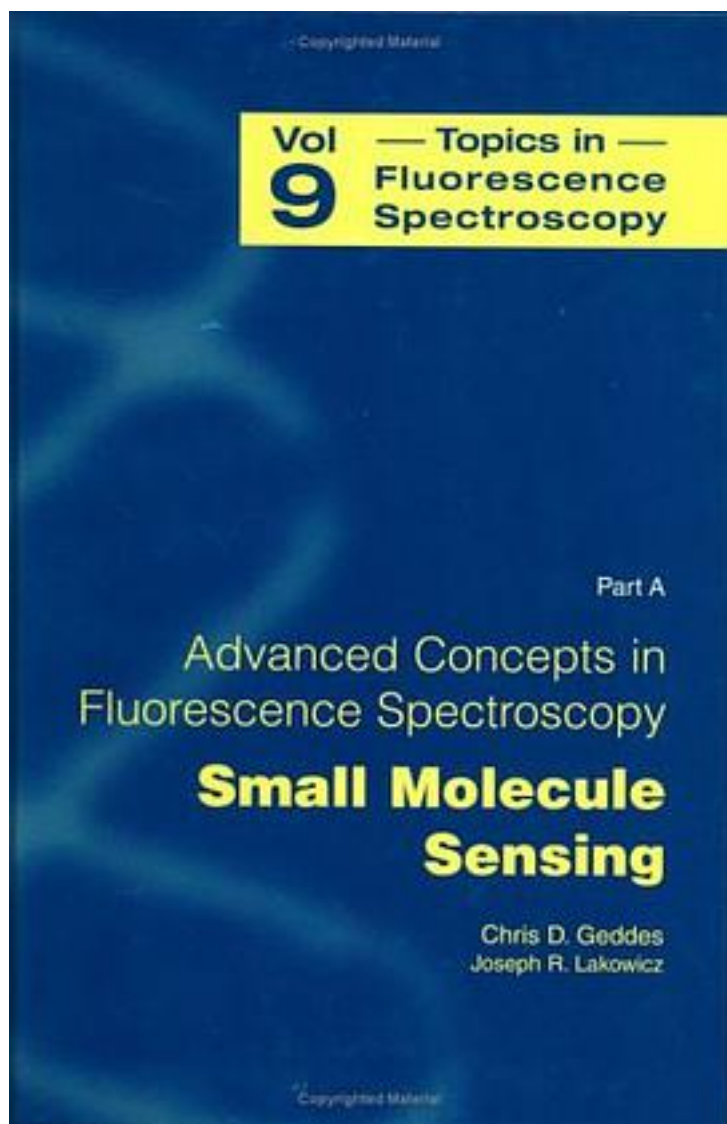


Advanced Concepts in Fluorescence Sensing



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Over the last decade, fluorescence has become the dominant tool in biotechnology and medical imaging. These exciting advances have been underpinned by the advances in time-resolved techniques and instrumentation, probe design, chemical/biochemical sensing, coupled with our furthered knowledge in biology. Complementary volumes 9 and 10, "Advanced Concepts of Fluorescence Sensing: Small Molecule Sensing" and "Advanced Concepts of Fluorescence Sensing: Macromolecular Sensing", aim to summarize the current state-of-the-art in fluorescent sensing. For this reason, Drs. Geddes and Lakowicz have invited chapters, encompassing a broad range of fluorescence sensing techniques. Some chapters deal with small molecule sensors, such as for anions, cations, and CO₂, while others summarize recent advances in protein-based and macromolecular sensors. The Editors have, however, not included DNA or RNA based sensing in this volume, as this were reviewed in Volume 7 and is to be the subject of a more detailed volume in the near future.

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