



Fluorescence Lifetime Spectroscopy and Imaging: Principles and Applications in Biomedical Diagnostics

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During the past two decades, there has been an increasing appreciation of the significant value that lifetime-based techniques can add to biomedical studies and applications of fluorescence. Bringing together perspectives of different research communities, **Fluorescence Lifetime Spectroscopy and Imaging: Principles and Applications in Biomedical Diagnostics** explores the remarkable advances in time-resolved fluorescence techniques and their role in a wide range of biological and clinical applications.

Broadly accessible, the book captures the state-of-the-art of fluorescence lifetime metrology and imaging and provides current perspectives on their applications to biomedical studies of intact tissues and medical diagnosis. The text introduces these techniques within the wider context of fluorescence spectroscopy and describes basic principles underlying current instrumentation for fluorescence lifetime imaging and metrology (FLIM). It also covers the wide range of methods, including single channel (point) spectroscopy, fluorescence lifetime imaging microscopy, and single- and multi-photon excitation.

Edited by pioneers in this field, with contributions from leading experts, the book includes an overview of complementary techniques that help researchers beginning FLIM research. It offers a comprehensive treatment of fundamental principles, instrumentation, analytical methods, and applications. It also provides an overview of the label-free contrast available from lifetime measurements of tissue autofluorescence and the prospects for exploiting this for clinical applications and biomedical research including drug discovery.

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