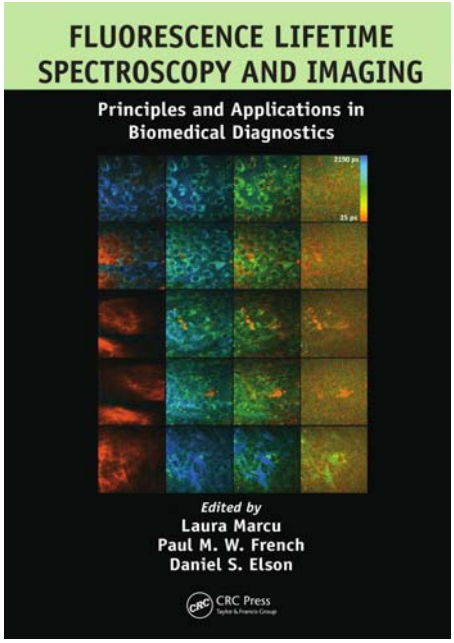
LAURA MARCU, PAUL M. W. FRENCH, DANIEL S. ELSON (EDITORS)
FLUORESCENCE LIFETIME SPECTROSCOPY AND IMAGING
PRINCIPLES AND APPLICATIONS IN BIOMEDICAL DIAGNOSTICS



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The book presents a comprehensive overview of fluorescence lifetime spectroscopy and imaging. The easily accessible text ranges from introduction to the fundamental principles to providing state-of-the-art techniques, and also focuses on their current applications in tissue diagnostics both for research and clinical purposes. It discusses in detail the instrumentation and analytical methods involved such as single channel (point) spectroscopy (utilizing ultrafast sampling), fluorescence lifetime imaging microscopy, and single- and multi-photon excitation.

Testifying to the value and importance of the book is the fact that the editors are pioneers and many of the contributors are themselves leading experts in this field, which has seen rapid development in the past couple of decades since the emergence of new optical and electronics technologies capable of ultrafast detectors, high-speed signal processing units, and the increased spectral coverage of solid-state and semiconductor lasers.

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