



Biomedical Optical Imaging Technologies: Design and Applications (Biological and Medical Physics, Biomedical Engineering)

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This book provides an introduction to design of biomedical optical imaging technologies and their applications. The main topics include: fluorescence imaging, confocal imaging, micro-endoscope, polarization imaging, hyperspectral imaging, OCT imaging, multimodal imaging and spectroscopic systems.

Each chapter is written by the world leaders of the respective fields, and will cover:

- principles and limitations of optical imaging technology,
- system design and practical implementation for one or two specific applications, including design guidelines, system configuration, optical design, component requirements and selection, system optimization and design examples,
- recent advances and applications in biomedical researches and clinical imaging.

This book serves as a reference for students and researchers in optics and biomedical engineering.



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